



CATALOGUE
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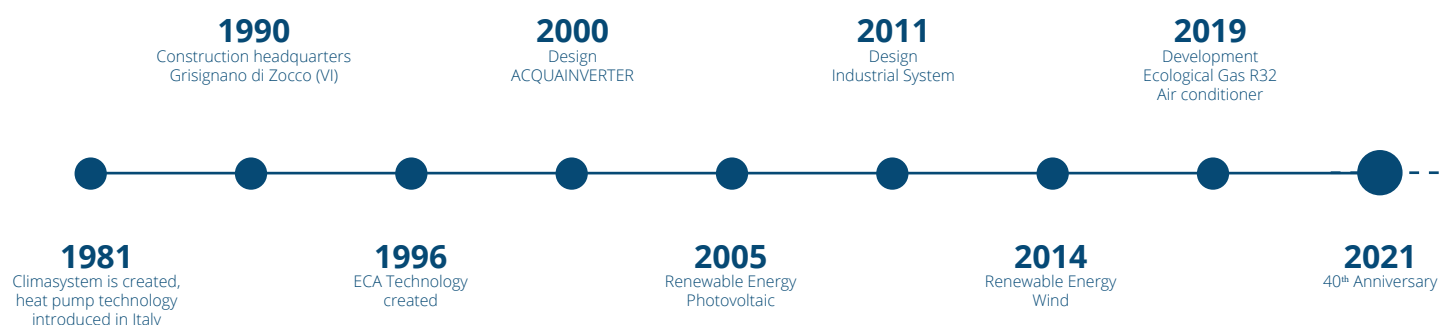
GENERAL CONDITIONS OF SALE 162

THE COMPANY

A **history** spanning **40 years**

ECA Technology designs and manufactures innovative technologies for the production of electricity from renewable sources, air conditioning, domestic hot water and heating, providing innovative, customised solutions for sustainable and future-oriented construction.

We have been active for over 40 years in a variety of sectors in three divisions: **RESIDENTIAL, INDUSTRIAL, & TOURISM**, ensuring maximum performance and total reliability of the systems by designing and providing unique products on the market.



THE COMPANY

Why choose **ECA Technology**?

With over 40 years experience, the company developed a large, reliable sales network that extends over the entire territory and provides qualified pre- and after-sales services. Further details:

Professional, direct-relationship**consultation**

Consultation in choosing a system and design solutions for an effective outcome is essential for ECA Technology. Consultation and attention to customer needs are the first step towards tailoring a project to meet expectations.

Products that are reliable, spare parts that are always available

The products that ECA Technology provides are designed and made available following months of testing in our technical and climatic chambers, to ensure reliability of product, installation and use.

In addition to a stock of products for immediate delivery, the company has a well-stocked spare parts warehouse.

Direct technical**support**

Guaranteeing a good product also means being ever-present in the after-sales stage. Technicians are available 7 days a week to answer all questions regarding both heating and plumbing systems and renewable energy systems. The in-house ECA Technology Operation & Maintenance division is responsible for the maintenance, monitoring and administrative aspects of photovoltaic systems – all with a view to optimising outcomes.

Extensive network of Agencies and Dealers

The strength of ECA Technology is in its agencies and dealerships that extend throughout the market in Italy – this allows us to spread far and wide and provide anyone with an opportunity to test our services and products. The Technical Support Centres allow us to respond promptly to requests in the entire network.

Direct supply with no intermediaries

The winning choice is not to provide ECA Technology products to wholesalers or retailers belonging to large-scale distribution: the sales policy, from the outset, developed directly in compliance with agencies or local dealerships who purchase directly from the headquarters.

THE COMPANY

Our **History**, your **Safety**

ECA Technology is now in its **40th** year. This anniversary launches and confirms the values that we as a company stand for:

Reliability, Experience and Safety

In **1981** we set out to create our history, a history that has allowed us to step into thousands of homes, companies and organisations. Now, we continue unperturbed to innovate by researching and designing optimal solutions each day to meet all comfort requirements.

In these first 40 years, we have worked to promote respect for the environment by applying **technologies without the use of fossil fuels**. The products we have designed have had and continue to have a common denominator: High efficiency, Energy saving and Respect for the environment.

Today, we are working together with you to make the environment greener for us all and for future generations.



THE COMPANY

The #ECAGreen project 🌿

We wish to thank those who have helped us in this mission and those who will decide to do so in the future. So, to share this milestone with all of you, we have chosen to celebrate by marrying a project that describes our corporate Vision exceptionally well: **a future-oriented sustainable building** with the utmost respect for the environment.

We have recently decided to embark on this journey by teaming up with Beleafing, a start-up of young urban, landscape architects assisted by IUAV University in Venice. With Beleafing, we will allocate trees for the **reforestation of areas** with frequent excess in the maximum levels of particulate matter in the atmosphere.

This will allow us to contribute to a **reduction in particulate matter and CO2** and **increase biodiversity in nature**, thus helping to raise awareness of the need to choose renewable technologies for people's homes.

We like to think that a tree in itself can represent a concrete, tangible gesture that, together with high-efficiency systems, contributes to optimising environmental improvement performance by endorsing a commitment that each of us, as a company, put into the field. This project will help to implement and bring to life, owing to the commitment of each of us, a small **green lung in our country** called ECA Technology.



Incentives

ECA Technology products benefit from current tax incentives. Find out the tax deduction for your requirements.

Heating account 2.0

*REQUIREMENTS FOR OBTAINING THE INCENTIVE:

HP air conditioners, air-to-water heat pumps

Requirements as per Annex I of Ministerial Decree 16 February 2016 for access to the catalogue of domestic appliances and in compliance with standard UNI EN 14511 (with values reduced by 5% with the inclusion of inverters).

Solar Water Heating

Collectors in accordance with GSE indications and in compliance with UNI EN 14975, 14676 and ISO 9806, Solar Keymark, 5-year warranty on collectors and water heaters, 2-year warranty on electrical and electronic components.

Water heating in HP

COP \geq 2.6 measured according to UNI EN 16147.



Renovation of buildings 50%

**REQUIREMENTS FOR OBTAINING THE INCENTIVE:

HP air conditioners, air-to-water heat pumps, solar water heating systems

Photovoltaic

For household use only.

Water heating in HP

COP \geq 2.6 measured according to UNI EN 16147.



Energy upgrade 65%

***REQUIREMENTS FOR OBTAINING THE INCENTIVE:

HP air conditioners, Air-to-water heat pumps

COP and EER in compliance with Annex I of Ministerial Decree 19/02/07 as amended.

Solar Water Heating

Compliance of collectors with EN 14975 or 14976, Solar Keymark, 5-year warranty on collectors and water heaters, 2-year warranty on electrical and electronic components.

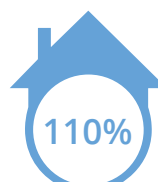
Water heating in HP

COP \geq 2.6 measured according to UNI EN 16147.



Superbonus 110%

REQUIREMENTS FOR OBTAINING THE INCENTIVE:
See Related Decree.



	HEATING ACCOUNT*	50% HOUSE BONUS**	65% ECOBONUS***	110% SUPERBONUS
	Heating account 2.0	Deduction for building renovation	Deduction for energy efficiency upgrade	Deduction for energy efficiency upgrade
Feel Plus FIV/FV0918	●	●	●	●
Feel Plus FIV/FV1218	●	●	●	●
Feel Plus FIV/FV1818	●	●	●	●
Feel Plus FIV/FV2418	●	●	●	●
Mono FIEV/FEV 0919 console	●	●	●	●
Mono FIEV/FEV 1219 console	●	●	●	●
Mono FIEV/FEV 1819 console		●		
MULTI UE Feel Plus FMVD2020	●	●	●	●
MULTI UE Feel Plus FMVDT2418	●	●	●	●
MULTI UE Feel Plus FMVDT2818	●	●	●	●
MULTI UE Feel Plus FMVTQ3418	●	●	●	●
MULTI UE Feel Plus FMVQP4418	●	●	●	●
SHINE SKWI/SKWE 0919		●		
SHINE SKWI/SKWE 1219		●		
SHINE SKWI/SKWE 1819	●	●		
SHINE SKWI/SKWE 2419		●		
EASY SKPI/SKPE 0918	●	●		
EASY SKPI/SKPE 1218		●		
EASY SKPI/SKPE 1818	●	●		
SKIV/SKEV 0918	●	●	●	●
MULTI UE Syntek SKVD2020	●	●	●	●
MULTI UE Syntek SKVDT2418	●	●	●	●
MULTI UE Syntek SKVDT2818	●	●	●	●
MULTI UE Syntek SKVTQ3418	●	●	●	●
MULTI UE Syntek SKVQP4418	●	●	●	●
CSV+MSV 1818HE32		●		
CSV+MSV 2418HE32	●	●	●	●
CSV+MSV 3618HE32		●		
CSV+MSV 4818HE32		●		
FSV+MSV 1818HE32		●		
FSV+MSV 2418HE32		●		
FSV+MSV 3618HE32		●		
DSV+MSV 1218HE32	●	●	●	●
DSV+MSV 1818HE32	●	●	●	●
DSV+MSV 2418HE32	●	●	●	●
DSV+MSV 3618HE32		●		
DSV+MSV 4818HE32		●		
DSV+MSV 6018HE32		●		
Acquainverter COH4514HE10	●	●	●	●
Acquainverter COH6515HE10	●	●	●	●
Acquainverter Smart EWM 08	●	●	●	●
Acquainverter Smart EWM 10	●	●	●	●
Acquainverter Smart EWM 12	●	●	●	●
Acquainverter Smart EWM 12T 3PH	●	●	●	●
Acquainverter Smart EWM 14T 3PH	●	●	●	●
Acquainverter Smart EWM 16T 3PH	●	●	●	●
Solar Water Heating	●	●	●	●
HP Water Heater	●	●	●	●

Specifications

ECA Technology's air conditioning systems are distinguished by their high quality and energy efficiency, guaranteed by over 40 years of continual technological development.

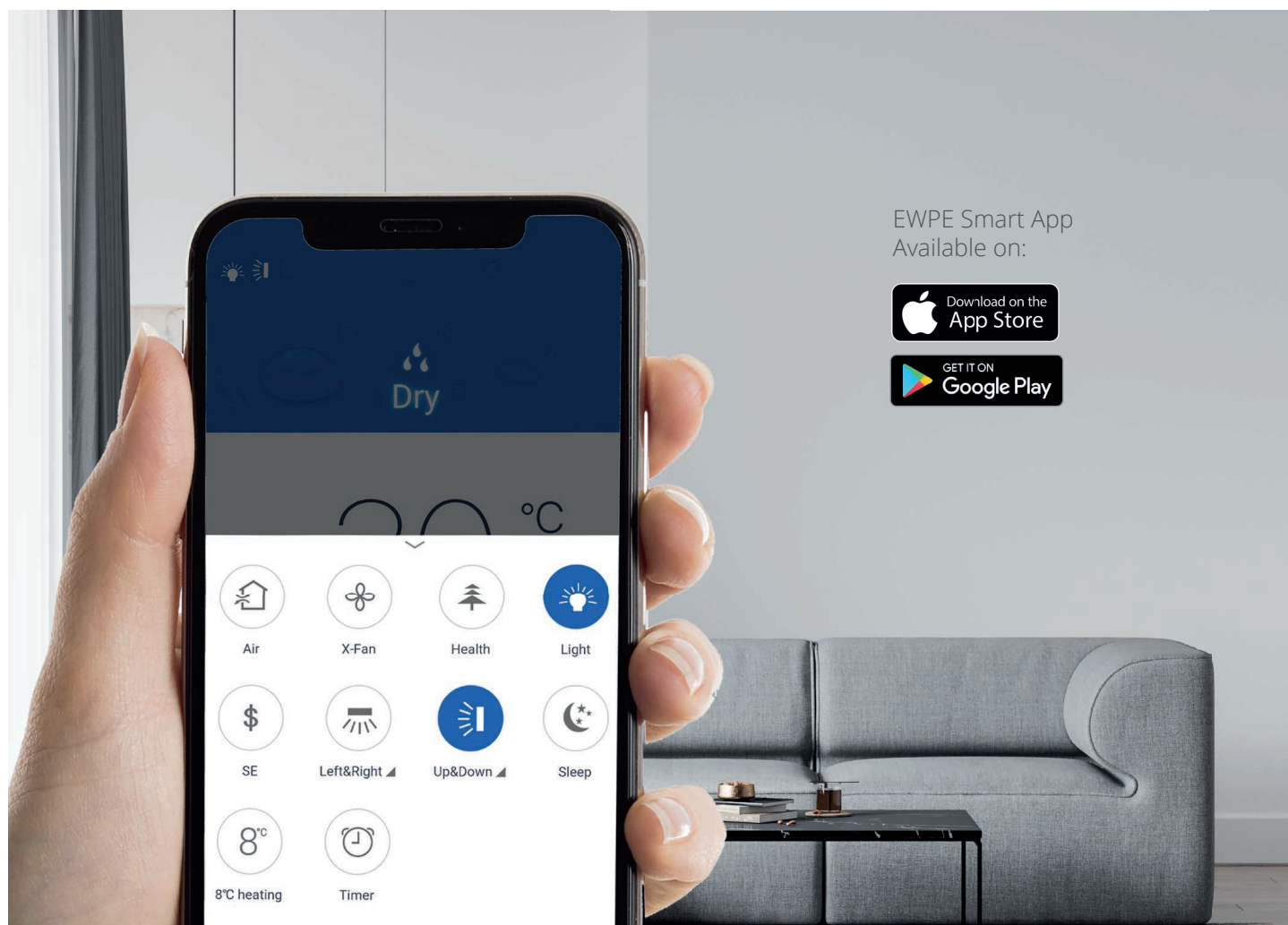
The research and careful design of increasingly functional solutions has made it possible to create products that meet all needs regarding climatic comfort and environmental sustainability and that adapt to all residential, tourist and commercial spaces.

Cooling and Heating

ECA Technology air conditioners combine heating and cooling functions for all-round comfort in all seasons.

Dehumidification

Allows conditioned air to circulate optimally in a given environment.



EWPE Smart App
Available on:



Wi-Fi

ECA Technology* units are equipped with Smart Wi-Fi technology for the management of all air conditioner functions using the Ewpe Smart App, making your return even more pleasant. The Wi-Fi system is also compatible with popular virtual assistants such as Alexa and Google Home.

*FeelPlus+ line standard and Syntek line optional

Room Temperature Control

The remote control or wired control can be used to control the set internal room temperature and, where available, the external room temperature.

Features



I Feel

The air conditioner regulates the temperature precisely where the remote control is positioned. This is to ensure climatic comfort wherever it is needed.



Light

Function to switch on/off the display illumination of the indoor unit.



Louvre swing

Uniform air distribution through horizontal and/or vertical louvres adjustable by remote control.



Auto Restart

In the event of a power cut, the unit will automatically resume operation when the power supply returns.



Turbo

Allows the air conditioner to reach a set temperature in the shortest possible time.



Self-Diagnostics

Automatic troubleshooting for easy maintenance.



Sleep

Automatic night-time temperature control to make the room more comfortable.



Quiet

Reduces fan speed compared to the minimum speed and compressor power, making the machine even more silent.



Automatic operation

Room temperature is detected such that the air conditioner automatically switches on in cooling or heating mode.



Cold Plasma Generator

Releases ions that neutralise bacteria, pollen, dust mites and pollutants to improve indoor air quality.



360° air delivery

360° air flow for optimal levels of comfort owing to the arrangement of the louvres.



Timer

Set automatic operation of the air conditioner by programming it according to your needs.



Ventilation speed

The ventilation range, which can be preset or automatic according to needs, begins with 1 and goes up to 5 (Syntek line) and 7 (Feel Plus+ line).



Intelligent Defrosting

Takes place only when required, reducing the energy waste associated with unnecessary defrosting procedures.



Self-cleaning (X-FAN)

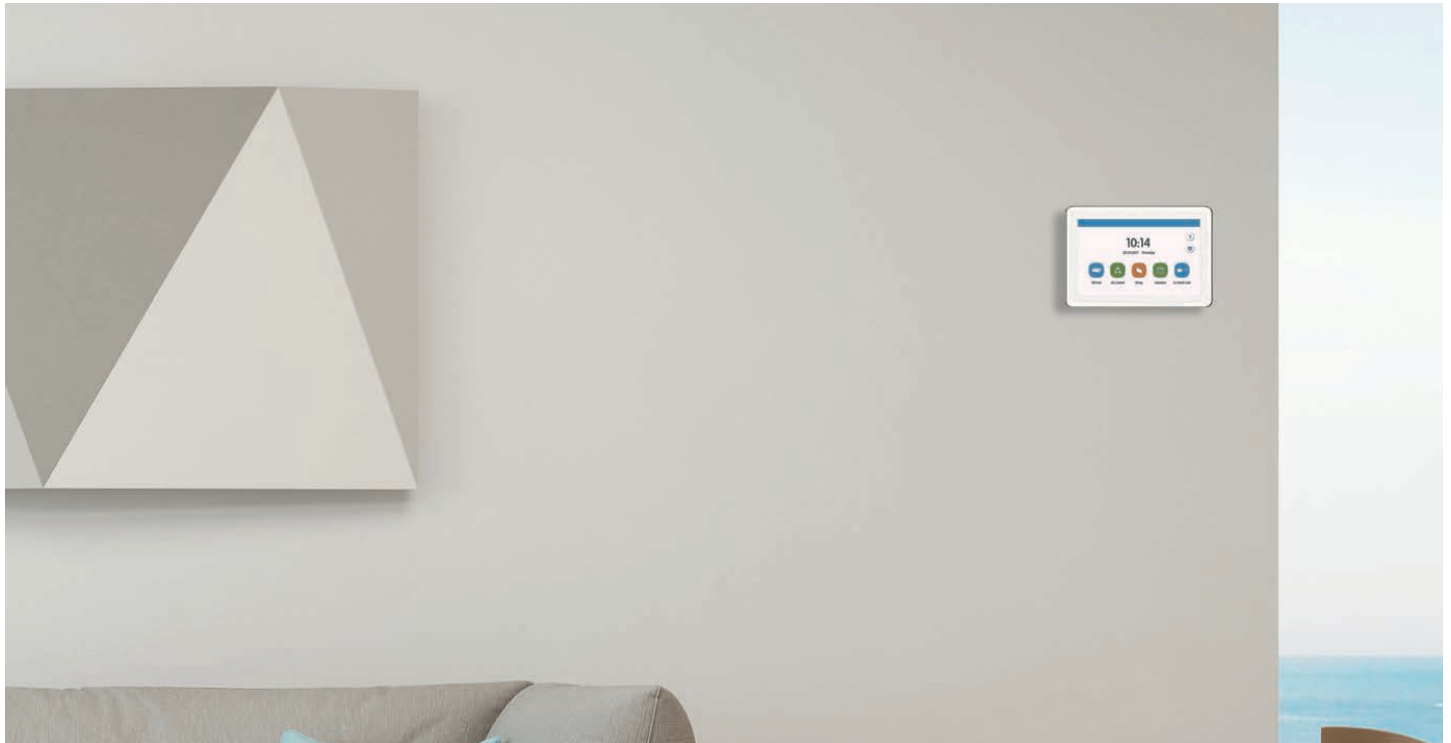
Self-sanitising system that allows the fan to continue running for a few minutes after the indoor unit has been switched off in order to dry the coil and prevent the formation of mould.



Cold air prevention

Air is only introduced into the room after reaching the comfort temperature to prevent the flow of cold air.

New **functions** and **commands**



Central control unit

FUNCTIONS

Allows the management of up to 36 connected indoor units.

All CSV - DSV - FSV indoor units must be equipped with a MODBUS Gateway to enable communication with the central control unit.



Wired controller with weekly timer

FUNCTIONS

Temperature setting, on/off, MULTIPLO operating mode, Fan speed setting, FLAP setting, Daily/weekly/bi-weekly timer.



Wired controller as standard for ducted units

FUNCTIONS

Temperature setting, on/off, fan speed setting, various mode setting, daily timer.

Modbus Gateway



FUNCTIONS

Communication module with MODBUS protocol for connecting CSV - DSV - FSV indoor units to the central control unit.

Wi-Fi Module



A dedicated Wi-Fi kit can be integrated into the units, to be purchased separately.

The units thus equipped with Wi-Fi kits can be controlled remotely, using an App that can be downloaded from the App Store and installed on your smartphone (compatible with iOS and Android systems).

Model comparison

	MODEL	Mono / Multi Syntek Shine	Mono Syntek Easy	Mono / Multi FEEL PLUS+	Mono / Multi Console	Multi Cassette	Multi Ducted	Mono Cassette	Mono Ducted	Mono Floor/Ceil
	ABB.	SKWI / SKWM	SKPI	FIV / FPVM	FEV / FEVM	FCVM	FDVM	CSV	DSV	FSV
MODE	Automatic operation	S	S	S	S	S	S	S	S	S
	Cooling	S	S	S	S	S	S	S	S	S
	Heating	S	S	S	S	S	S	S	S	S
	Dehumidification	S	S	S	S	S	S	S	S	S
	Ventilation	S	S	S	S	S	S	S	S	S
FUNCTIONS	Fan speed (no.)	5	5	7	7	5	5	5	5	5
	Turbo	S	S	S	S	S	S	S	S	S
	I Feel	S	S	S	S	S	S	S	S	S
	Sleep	S	S	S	S	S	S	S	S	S
	Louvre swing	vertical	vertical	vertical horizontal	vertical	vertical	NA	vertical	NA	vertical
	Command lock	S	S	S	S	S	S	S	S	S
	Quiet	NA	NA	S	S	NA	NA	S	S	S
	Timer	S	S	S	S	S	S	S	S	S
	Light	S	S	S	S	S	NA	S	NA	S
	Temperature display	S	S	S	S	S	NA	S	NA	NA
	360° air flow	NA	NA	NA	NA	S	NA	S	NA	NA
	Self-cleaning (X-FAN)	S	S	S	S	S	S	S	S	S
	Intelligent defrosting	S	S	S	S	S	S	S	S	S
	Cold air prevention	S	S	S	S	S	S	S	S	S
	Auto-restart	S	S	S	S	S	S	S	S	S
	Self-diagnostics	S	S	S	S	S	S	S	S	S
ACCESSORIES	Dual side cond. drain	S	S	S	S	NA	S (only natural)	NA	S (only natural)	NA
	Condensate drain pump	NA	NA	NA	NA	S (pipe side only)	S (pipe side only)	S (pipe side only)	S (pipe side only)	NA
	Cold plasma generator	NA	NA	S	S	NA	NA	NA	NA	NA
	Wi-Fi	Optional	Optional	S	S	NA	NA	Optional	Optional	Optional
	Wired controller weekly timer	NA	NA	Optional	Optional	Optional	Optional	Optional	Optional	Optional
	Central control	NA	NA	Optional	Optional	Optional	Optional	Optional	Optional	Optional
	On-off remote control kit	NA	NA	Optional	NA	NA	NA	Optional	Optional	Optional

KEY
S as standard
NA not available
Optional optional



MONOSPLIT SOLUTIONS



Feel Plus+ Wall Air Conditioner

MONOSPLIT WALL AIR CONDITIONER DC INVERTER



Feel Plus+ Console Air Conditioner

MONOSPLIT FLOOR AIR CONDITIONER DC INVERTER



Syntek Easy Wall Air Conditioner

MONOSPLIT WALL AIR CONDITIONER DC INVERTER



Syntek Shine Wall Air Conditioner

MONOSPLIT WALL AIR CONDITIONER DC INVERTER

MONOSPLIT SOLUTIONS

Feel Plus+ Wall Air Conditioner

The FeelPlus+ wall line includes a Cold Plasma Generator and multifunctional purifying filters to combine the cooling and heating functions with those of air purification.



Cold Plasma Generator

Device that releases negative ions into the air to neutralise polluting particles in the environment, making the air healthy and providing well-being for the body and mind.



Catechin filter

Helps prevent multiplication of bacteria and contamination by viral agents.



Mite-Bacteria Filter

Traps dust mites, the main causes of allergies.



Vitamin C Filter

Allows higher quality air to be breathed in, which is beneficial for health.



Silver Ion Filter

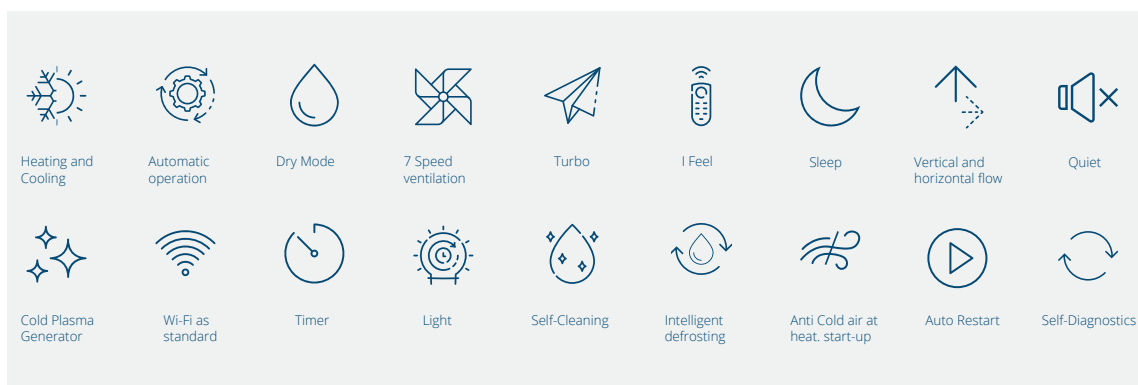
Eliminates 99.9% of bacteria in the air and regenerates it.



FIV Wall



Feel Plus+ Wall Air Conditioner



MODEL		I.U. O.U.	FIV0918HE32 FV0918HE32	FIV1218HE32 FV1218HE32	FIV1818HE32 FV1818HE32	FIV2418HE32 FV2418HE32
Power supply		V/Ph/Hz	230/1/50			
Seasonal efficiency in Cooling mode	Pdesign	kW	2.7	3.5	5.3	6.4
	SEER		8.5	8.5	7.6	7
	Annual energy consump.	kWh/a	111	144	244	350
	Energy Label		A+++	A+++	A++	A++
Seasonal efficiency in Heating mode - average/warmer climate	Pdesign	kW	2.8	3.2	4.5	6.4
	SCOP		4.60 / 5.40	4.40 / 5.10	4.10 / 5.20	4.00 / 5.20
	Annual energy consump.	kWh/a	852 / 830	1018 / 878	1537 / 1238	2240 / 1912
	Energy Label		A++ / A+++	A+ / A+++	A+ / A+++	A+ / A+++
Nominal cooling capacity (min-max)		kW	2.70 (0.90-3.61)	3.50 (1.00-3.81)	5.30 (1.26-6.60)	7.00 (1.10-9.05)
		BTU/h	9200 (3071-12317)	12000 (3400-13000)	18084 (4299-22519)	24000 (3700-30900)
Nominal cooling electric power (min-max)		kW	0.585 (0.10-1.38)	0.95 (0.10-1.40)	1.55 (0.38-2.45)	2.00 (0.40-3.70)
		kW	2.93 (0.70-3.96)	3.81 (1.20-4.40)	5.57 (1.12-6.80)	7.20 (1.70-10.10)
Nominal heating capacity (min-max)		BTU/h	10000 (2388-13510)	13000 (4100-15010)	19005 (3821-23202)	24500 (5800-34600)
		kW	0.65 (0.17-1.625)	0.975 (0.20-1.65)	1.428 (0.35-2.60)	1.845 (0.450-3.80)
EER / COP			4.62 / 4.51	3.68 / 3.91	3.42 / 3.90	3.50 / 3.90
Indoor unit air flow volume (SH/H/MH/M/ML/L/SL)		m³/h	660/590/540/490/450/420/390	680/590/540/490/450/420/390	850/750/-/610/-/520/306	1250/1100/1000/950/900/850/750
Outdoor unit air flow volume		m³/h	2200	2200	3200	3200
Indoor unit sound pressure (SH/H/MH/M/ML/L/SL)		dB(A)	41/39/37/35/33/31/24	43/39/37/35/34/32/25	49/45/43/41/39/37/34	49/47/44/42/40/38/36
Indoor unit sound power (SH/H/MH/M/ML/L/SL)		dB(A)	56/53/52/50/48/46/39	58/53/52/50/48/46/40	58/55/53/51/49/47/44	65/61/58/56/54/52/50
Outdoor unit sound pressure (H)		dB(A)	52	53	57	60
Outdoor unit sound power (H)		dB(A)	60	62	65	70
Indoor unit dimensions (HxWxD)		mm	290x865x210	290x865x210	301x996x225	327x1101x249
Indoor unit weight		kg	10.5	11	13.5	16.5
Outdoor unit dimensions (HxWxD)		mm	596x848x320	596x848x320	700x955x396	700x955x396
Outdoor unit weight		kg	33.5	33.5	45	53
Pipe length: min-max with standard charge/max with additional charge		m	2-5 / 15	2-5 / 20	2-5 / 25	2-5 / 25
Max height difference		m	10	10	10	10
Liquid/gas pipe diameter		mm (inch")	6.35 (1/4") / 9.52 (3/8")	6.35 (1/4") / 9.52 (3/8")	6.35 (1/4") / 12.7 (1/2")	6.35 (1/4") / 15.8 (5/8")
Refrigerant type/standard charge		type/kg	R32 / 0.70	R32 / 0.75	R32 / 1.00	R32 / 1.70
Global warming potential / CO2 equiv.tons		GWP/tons	675 / 0.473	675 / 0.506	675 / 0.675	675 / 1.148
Refrigerant addition beyond max length with standard charge		g/m	20	20	16	50
Heating/cooling ambient operating temp. range		°C	-15 to 24 / -15 to 43	-15 to 24 / -15 to 43	-15 to 24 / -15 to 43	-15 to 24 / -15 to 43
CODE	I.U.		2704041	2704043	2704045	2704047
	O.U.		2704042	2704044	2704046	2704048

OPTIONAL ACCESSORIES	CODE
Wired controller with weekly timer	2704040
Wired controller for control of up to 36 indoor units*	2701456
ON-OFF remote control kit	2402050

* Each indoor unit must be equipped with a wired controller Cod. 2704040

THE ABOVE TECHNICAL DATA REFERS TO EUROPEAN STANDARDS EN14511 AND EN14825. OUTDOOR UNITS CONTAIN FLUORINATED GREENHOUSE GASES GOVERNED BY THE KYOTO PROTOCOL

Console FeelPlus+ Air Conditioner

The FeelPlus+ line Console version is the ideal air-conditioning solution to guarantee **diffused, uniform distribution of air** inside rooms via upper and lower (floor) flow.

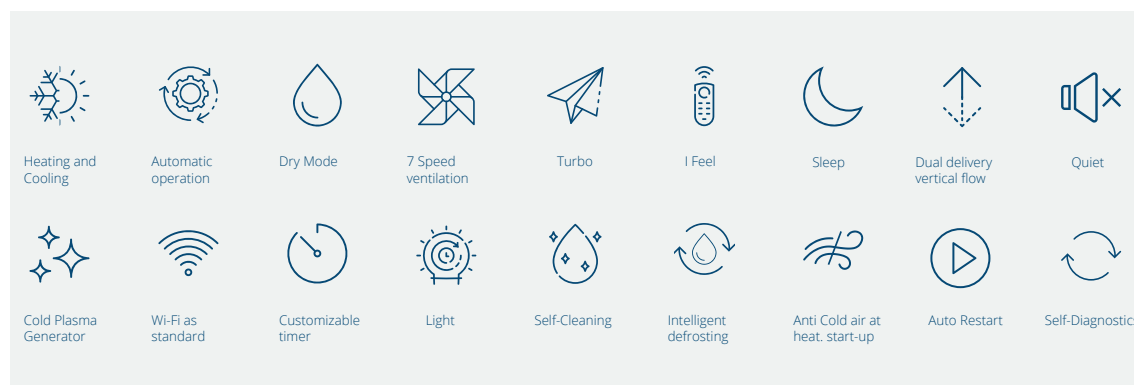
In addition to Wi-Fi as standard, the air conditioner **incorporates a Cold Plasma Generator**, a device that eliminates polluting particles using an emission of negative ions and simultaneously providing well-being for the body and mind. The compact design also allows easy and versatile installation of the Console.



FEV Console



Console FeelPlus+ Air Conditioner



MODEL		I.U.	FIEV 0919 HE32	FIEV 1219 HE32	FIEV 1819 HE32
		O.U.	FEV 0919 HE32	FEV 1219 HE32	FEV 1819 HE32
Power supply		V/Ph/Hz	230/1/50		
Seasonal efficiency in Cooling mode	Pdesign	kW	2.70	3.5	5.2
	SEER		7.2	7	6.6
	Annual energy consumption	kWh/a	131	175	276
	Energy Label		A++	A++	A++
Seasonal efficiency in Heating mode - average/ warmer climate	Pdesign	kW	2.60 / 2.80	3.20 / 3.30	5.00 / 5.00
	SCOP		4.00 / 5.30	4.10 / 5.30	4.00 / 5.10
	Annual energy consumption	kWh/a	910 / 740	1093 / 872	1750 / 1373
	Energy Label		A+ / A+++	A+ / A+++	A+ / A+++
Nominal cooling capacity (min-max)	kW		2.70 (0.70-3.40)	3.52 (0.80-4.40)	5.20 (1.26-6.60)
	BTU/h		9212 (2388-11601)	12010 (2730-15013)	17742 (4299-22519)
Nominal cooling electric power (min-max)	kW		0.72 (0.17-1.30)	1.00 (0.16-1.50)	1.55 (0.38-2.45)
Nominal heating capacity (min-max)	kW		2.90 (0.60-3.50)	3.80 (1.10-4.40)	5.33 (1.12-6.80)
	BTU/h		9895 (2047-11942)	12966 (3753-15013)	18186 (3821-23202)
Nominal heating electric power (min-max)	kW		0.73 (0.13-1.35)	0.96 (0.165-1.50)	1.50 (0.35-2.50)
EER / COP			3.75 / 3.97	3.52 / 3.96	3.40 / 3.55
Indoor unit air flow volume (SH/H/MH/M/ML/L/SL)	m³/h		500/430/410/370/330/280/250	600/520/480/440/400/360/280	700/650/580/520/460/410/320
Outdoor unit air flow volume	m³/h		1600	2200	3200
Indoor unit sound pressure (SH/H/MH/M/ML/L/SL)	dB(A)		39/36/33/31/29/26/23	44/40/38/36/33/29/25	47/45/43/41/38/37/32
Indoor unit sound power (SH/H/MH/M/ML/L/SL)	dB(A)		50/48/45/44/42/38/34	54/50/48/46/43/39/35	57/55/53/51/48/47/42
Outdoor unit sound pressure (H)	dB(A)		49	52	57
Outdoor unit sound power (H)	dB(A)		60	62	65
Indoor unit dimensions (HxWxD)	mm		600x700x215	600x700x215	600x700x215
Indoor unit weight	kg		15.5	15.5	15.5
Outdoor unit dimensions (HxWxD)	mm		540x782x320	596x848x320	700x965x396
Outdoor unit weight	kg		27.5	30.5	46
Pipe length: min-max with standard charge/ max with additional charge	m		2-5 / 15	2-5 / 20	2-5 / 25
Max height difference	m		10	10	10
Liquid/gas pipe diameter	mm (inch")		6.35 (1/4") - 9.52 (3/8")	6.35 (1/4") / 9.52 (3/8")	6.35 (1/4") / 12.7 (1/2")
Refrigerant type/standard charge	type/kg		R32 / 0.55	R32 / 0.75	R32 / 0.95
Global warming potential / CO2 equiv. tons	GWP/ tons		675 / 0.372	675 / 0.506	675 / 0.642
Refrigerant addition beyond max length with standard charge	g/m		16	16	16
Heating/cooling ambient operating temp. range	°C		-22 to 24 / -15 to 43	-22 to 24 / -15 to 43	-22 to 24 / -15 to 43
CODE	I.U.		2705009	2705011	2705013
	O.U.		2705010	2705012	2705014

OPTIONAL ACCESSORIES	CODE
Wired controller with weekly timer	2704040
Wired controller for control of up to 36 indoor units*	2701456

* Each indoor unit must be equipped with a wired controller Cod. 2704040

MONOSPLIT SOLUTIONS

Syntek Easy Wall Air Conditioner

Syntek Easy is a **robust response to the need for climatic comfort** and, at the same time, provides easy installation and use.

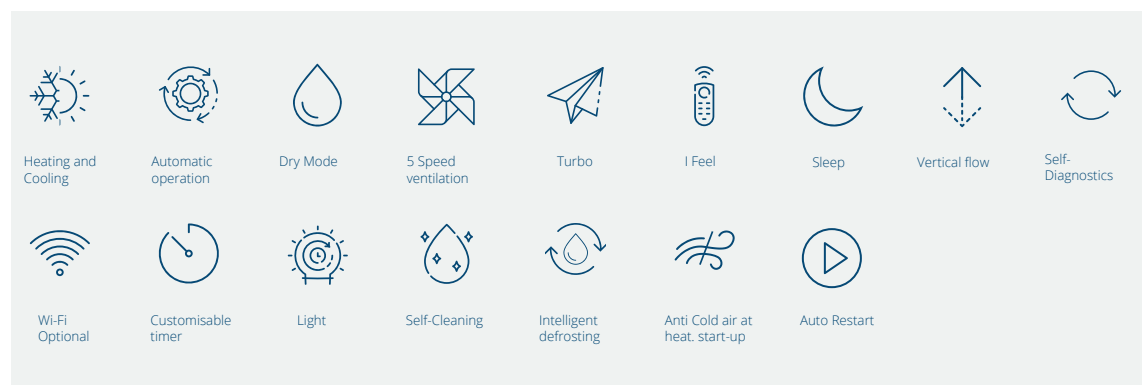
It is an ideal air conditioning system for use in residential environments since it is easy to install without requiring special masonry work, and is easily inspected: **cleaning and routine maintenance** of the air conditioner will become an **simple** task to say the least.



SKPI Wall



Syntek Easy Wall Air Conditioner



MODEL		I.U.	SKPI0918GHP-32	SKPI1218GHP-32	SKPI1818GHP-32
		O.U.	SKPE0918GHP-32	SKPE1218GHP-32	SKPE1818GHP-32
Power supply		V/Ph/Hz	230/1/50		
Seasonal efficiency in Cooling mode	Pdesign	kW	2.50	3.20	4.60
	SEER		6.10	6.10	6.10
	Annual energy consump.	kWh/a	143	184	264
	Energy Label		A++	A++	A++
Seasonal efficiency in Heating mode - average/warmer climate	Pdesign	kW	2.60/2.80	3.20/3.40	3.60/3.60
	SCOP		4.00/5.10	4.00/5.10	4.00/5.10
	Annual energy consump.	kWh/a	910/769	1120/933	1260/988
	Energy Label		A+/A+++	A+/A+++	A+/A+++
Nominal cooling capacity (min-max)		kW	2.50 (0.50-3.35)	3.20 (0.60-3.60)	4.60 (0.65-5.20)
		BTU/h	8500 (1700-11500)	10918 (2047-12965)	15695 (2218-17742)
Nominal cooling electric power (min-max)		kW	0.805 (0.16-1.40)	0.997 (0.12-1.40)	1.43 (0.15-1.70)
Nominal heating capacity (min-max)		kW	2.80 (0.50-3.50)	3.50 (0.60-4.60)	5.20 (0.70-5.40)
		BTU/h	9554 (1700-12000)	11942 (2047-15695)	17742 (2388-18425)
Nominal heating electric power (min-max)		kW	0.755 (0.20-1.50)	0.97 (0.12-1.50)	1.40 (0.16-1.60)
EER / COP			3.11 / 3.71	3.21 / 3.61	3.22 / 3.71
Indoor unit air flow volume (SH/H/M/L)		m³/h	560/490/430/330	560/480/410/290	850/720/610/520
Outdoor unit air flow volume		m³/h	1600	2200	2200
Indoor unit sound pressure (SH/H/M/L)		dB(A)	39/36/32/28	41/37/33/25	48/45/39/34
Indoor unit sound power (SH/H/M/L)		dB(A)	55/52/44/38	55/47/43/35	58/54/49/44
Outdoor unit sound pressure (H)		dB(A)	52	52	54
Outdoor unit sound power (H)		dB(A)	61	62	63
Indoor unit dimensions (HxWxD)		mm	275x790x200	275x790x200	300x970x224
Indoor unit weight		kg	9	9	13.5
Outdoor unit dimensions (HxWxD)		mm	540x776x320	596x848x320	596x842x320
Outdoor unit weight		kg	29.5	31	34
Pipe length: min-max with standard charge/ max with additional charge		m	2-5 / 10	2-5 / 10	2-5 / 10
Max height difference		m	10	10	10
Liquid/gas pipe diameter		mm (inch")	6.35 (1/4") / 9.52 (3/8")	6.35 (1/4") / 9.52 (3/8")	6.35 (1/4") / 9.52 (3/8")
Refrigerant type/standard charge		type/kg	R32 / 0.60	R32 / 0.59	R32 / 0.77
Global warming potential / CO2 equiv.tons		GWP/tons	675 / 0.405	675 / 0.398	675 / 0.520
Refrigerant addition beyond max length with standard charge		g/m	20	16	16
Heating/cooling ambient operating temp. range		°C	-15 to 24 / -15 to 43	-15 to 24 / -15 to 43	-15 to 24 / -15 to 43
CODE	I.U.		2402151	2402153	2402155
	O.U.		2402152	2402154	2402156

OPTIONAL ACCESSORIES	CODE
Wi-Fi Module	2402049

Syntek Shine Wall Air Conditioner

The Syntek Shine line meets the most stringent requirements for functionality and guaranteed climatic comfort. The **ultra-compact design** distinguished by the unmistakable silver line adapts to each space and provides a unique touch.

The quality of the materials used and painstaking manufacturing have made it possible to reach extreme operating temperatures (-15°C to +43°C), making Syntek Shine's performance optimal even in brackish environments.

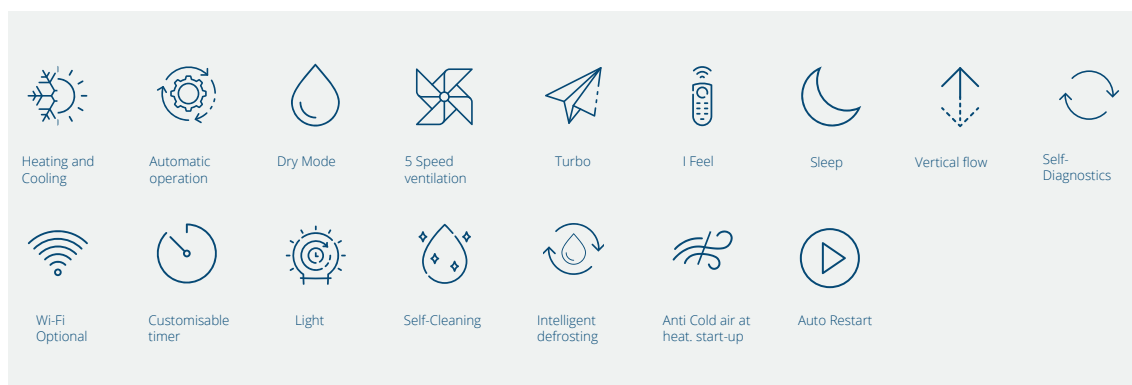
Lastly, **energy class A+++** and the inclusion of **ecological refrigerant gas R32** ensure that this model saves energy, is highly efficient and environmentally friendly.



SKW1 Wall



Syntek Shine Wall Air Conditioner



MODEL		I.U.	SKWI0919GHP-32	SKWI1219GHP-32	SKWI1819GHP-32	SKWI2419GHP-32
		O.U.	SKWE0919GHP-32	SKWE1219GHP-32	SKWE1819GHP-32	SKWE2419GHP-32
Power supply		V/Ph/Hz	230/1/50			
Seasonal efficiency in Cooling mode	Pdesign	kW	2.50	3.20	4.60	6.10
	SEER		6.10	6.10	6.10	6.10
	Annual energy consump.	kWh/a	143	184	264	350
	Energy Label		A++	A++	A++	A++
Seasonal efficiency in Heating mode - average/warmer climate	Pdesign	kW	2.60/2.80	3.20/3.40	3.60/3.60	4.70/4.70
	SCOP		4.00/5.10	4.00/5.10	4.00/5.10	4.00/5.10
	Annual energy consump.	kWh/a	910/769	1120/933	1260/988	1645/1290
	Energy Label		A+/A+++	A+/A+++	A+/A+++	A+/A+++
Nominal cooling capacity (min-max)		kW	2.50 (0.50-3.35)	3.20 (0.60-3.60)	4.60 (0.65-5.20)	6.15 (1.80-6.40)
		BTU/h	8530 (1700-11500)	10918 (2047-12283)	15695 (2218-17742)	21000 (6142-21837)
Nominal cooling electric power (min-max)		kW	0.781 (0.16-1.40)	0.997 (0.10-1.40)	1.43 (0.15-1.70)	1.76 (0.60-2.50)
Nominal heating capacity (min-max)		kW	2.80 (0.50-3.50)	3.40 (0.60-4.40)	5.20 (0.70-5.40)	6.45 (1.60-6.60)
		BTU/h	9554 (1700-12000)	11601 (2047-15013)	17742 (2388-18425)	22000 (5459-22519)
Nominal heating electric power (min-max)		kW	0.777 (0.20-1.50)	0.941 (0.12-1.50)	1.40 (0.16-1.60)	1.86 (0.65-2.60)
EER / COP			3.20 / 3.60	3.21 / 3.61	3.22 / 3.71	3.50 / 3.47
Indoor unit air flow volume (SH/H/M/L)		m³/h	550/500/430/300	550/500/430/300	850/720/610/520	850/720/610/520
Outdoor unit air flow volume		m³/h	1600	2200	2200	3200
Indoor unit sound pressure (SH/H/M/L)		dB(A)	40/37/35/28	42/37/35/28	48/45/39/34	48/44/40/34
Indoor unit sound power (SH/H/M/L)		dB(A)	55/49/47/40	55/49/47/40	58/55/49/44	59/54/50/44
Outdoor unit sound pressure (H)		dB(A)	52	52	54	57
Outdoor unit sound power (H)		dB(A)	60	62	63	67
Indoor unit dimensions (HxWxD)		mm	250x773x185	250x773x185	300x970x225	300x970x225
Indoor unit weight		kg	8.5	8.5	13.5	13.5
Outdoor unit dimensions (HxWxD)		mm	540x776x320	596x842x320	596x842x320	700x955x396
Outdoor unit weight		kg	29	31	34	46
Pipe length: min-max with standard charge/ max with additional charge		m	2-5 / 15	2-5 / 20	2-5 / 20	2-5 / 25
Max height difference		m	10	10	10	10
Liquid/gas pipe diameter		mm (inch")	6.35 (1/4") / 9.52 (3/8")	6.35 (1/4") / 9.52 (3/8")	6.35 (1/4") / 9.52 (3/8")	6.35 (1/4") / 15.8 (5/8")
Refrigerant type/standard charge		type/kg	R32 / 0.60	R32 / 0.65	R32 / 0.77	R32 / 1.30
Global warming potential / CO2 equiv.tons		GWP/tons	675 / 0.405	675 / 0.439	675 / 0.520	675 / 0.878
Refrigerant addition beyond max length with standard charge		g/m	20	20	16	40
Heating/cooling ambient operating temp. range		°C	-15 to 24 / -15 to 43	-15 to 24 / -15 to 43	-15 to 24 / -15 to 43	-15 to 24 / -15 to 43
CODE		I.U.	2402251	2402253	2402255	2402257
		O.U.	2402252	2402254	2402256	2402258

OPTIONAL ACCESSORIES	CODE
Wi-Fi Module	2402049





Feel Plus+ Wall Air Conditioner
MULTISPLIT WALL VERSION DC INVERTER



Feel Plus+ Console Air Conditioner
MULTISPLIT FLOOR VERSION DC INVERTER



Feel Plus+ Ducted Air Conditioner
MULTI DUCTED VERSION DC INVERTER

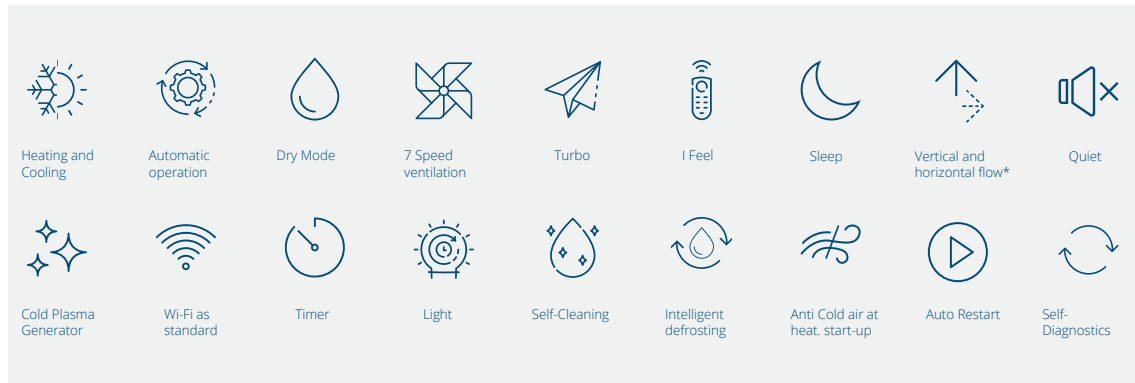


Feel Plus+ Cassette Air Conditioner
MULTI CASSETTE VERSION DC INVERTER

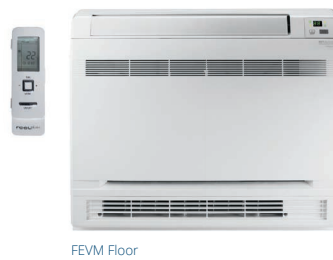


Syntek Shine Wall Air Conditioner
MULTISPLIT WALL VERSION DC INVERTER

FeelPlus+ Multi-Wall and Multi-Console



*Double delivery vertical flow in FEVM console version



From **2** to **5**
units
 indoor with only
 one outdoor unit

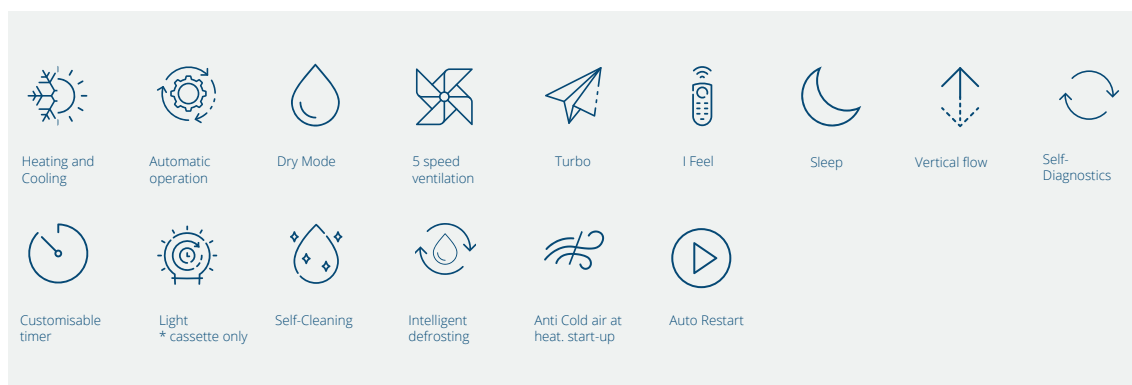
TECHNICAL DATA

MODEL	WALL FPVM					FLOOR FEVM		
	I.U.	0918HE32	1218HE32	1818HE32	2418HE32	0919HE32	1219HE32	1819HE32
Power supply	V/Ph/ Hz	230/1/50				230/1/50		
Nominal cooling capacity	kW	2.70	3.50	5.30	7.00	2.70	3.52	5.20
	BTU/h	9200	12000	18084	24000	9212	12010	17742
Nominal heating capacity	kW	2.93	3.81	5.57	7.20	2.9	3.8	5.33
	BTU/h	10000	13000	19005	24500	9895	12966	18186
Air flow volume (SH/H/MH/M/ML/L/SL)	m³/h	660/590/540/490/ 450/420/390	680/590/540/490/ 450/420/390	850/750/-/610/ -/520/-	1250/1100/1000/ 950/900/850/750	500/430/410/370/ 330/280/250	600/520/480/440/ 400/360/280	700/650/580/520/ 460/410/320
Sound pressure (SH/H/MH/M/ML/L/SL)	dB(A)	41/39/37/35/ 33/31/24	43/39/37/35/ 34/32/25	49/45/43/41/3 9/37/34	49/47/44/42/ 40/38/36	39/36/33/31/ 29/26/23	44/40/38/36/ 33/29/25	47/45/43/41/ 38/37/32
Sound power (SH/H/MH/M/ML/L/SL)	dB(A)	56/53/52/50/ 48/46/39	58/53/52/50/ 48/46/40	58/55/53/51/ 49/47/44	65/61/58/56/ 54/52/50	50/48/45/44/ 42/38/34	54/50/48/46/ 43/39/35	57/55/53/51/ 48/47/42
Dimensions (H x W x D)	mm	290x865x210	290x865x210	301x996x225	327x1101x249	600x700x215	600x700x215	600x700x215
Net weight	kg	10.5	11	13.5	16.5	15.5	15.5	15.5
Liquid / gas pipe diameter	mm (inch")	6.35 (1/4") / 9.52 (3/8")	6.35 (1/4") / 9.52 (3/8")	6.35 (1/4") / 12.7 (1/2")	6.35 (1/4") / 15.8 (5/8")	6.35 (1/4") / 9.52 (3/8")	6.35 (1/4") / 9.52 (3/8")	6.35 (1/4") / 12.7 (1/2")
CODE		2702040	2702041	2702042	2702043	2702441	2702443	2702444

OPTIONAL ACCESSORIES	CODE
Wired controller for control of up to 36 indoor units*	2701456
ON-OFF remote control kit**	2402050

* Each indoor unit must be equipped with a wired controller Cod. 2704040 - **for FPVM wall split only

FeelPlus+Multi Cassette and Multi Ducted



FCVM Cassette



FDVM Ducted

From **2 to 5**
units
 indoor with only
 one outdoor unit

TECHNICAL DATA

MODEL	I.U.	CASSETTE FCVM		DUCTED FDVM	
		1218HE32	1818HE32	1218HE32	1818HE32
Power supply	V/Ph/Hz	230/1/50			
Nominal cooling capacity	kW	3.50	4.50	3.50	5.00
	BTU/h	11942	15354	11942	17060
Nominal heating capacity	kW	4	5	3.85	5.5
	BTU/h	13648	17060	13150	18800
Air flow volume (smax/max/med/min)	m³/h	650/560/520/450	710/670/590/450	620/550/400/300	840/700/600/500
Sound pressure (smax/max/med/min)	dB(A)	44/41/38/34	47/45/41/35	42/39/35/32	45/41/37/33
Sound power (smax/max/med/min)	dB(A)	55/52/49/45	58/56/52/46	52/49/45/42	55/51/47/43
Dimensions (H x W x D)	mm	240x596x596	240x596x596	200x700x615	200x900x615
Net weight	kg	20	20	22	26
Liquid / gas pipe diameter	mm (inch")	6.35 (1/4") / 9.52 (3/8")	6.35 (1/4") / 12.7 (1/2")	6.35 (1/4") / 9.52 (3/8")	6.35 (1/4") / 12.7 (1/2")
Grille dimensions (HxWxD)	mm	50x670x670	50x670x670		
Grille recess hole	mm	595x595	595x595		
Grille weight	kg	3.5	3.5		
CODE		2702341 - 2702497	2702342 - 2702497	2702241	2702242

OPTIONAL ACCESSORIES	CODE
Wired controller for control of up to 36 indoor units*	2701456
Circular nozzle section with 2 outlets Ø 160 mm for FDVM1218	2702495
Circular nozzle section with 3 outlets Ø 200 mm for FDVM1818	2702496
Wired controller with Weekly Timer	2704040

* Each indoor unit must be equipped with a wired controller Cod. 2704040

Multi FeelPlus+ Possible Combinations



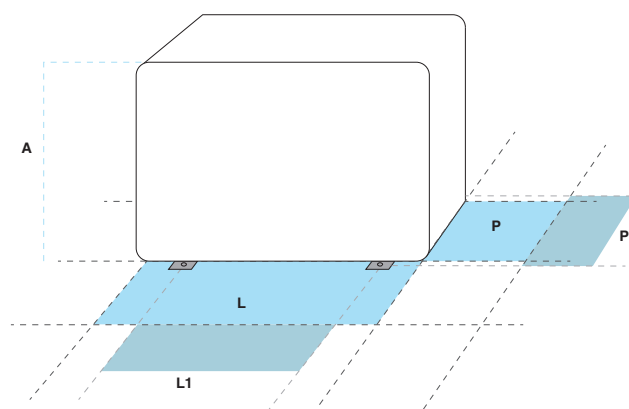
	FMVD2020HE32	FMVDT2418HE32	FMVDT2818HE32	FMVTQ3418HE32	FMVQP4418HE32
2 indoor units	9 + 9	9 + 9	9 + 9	9 + 9	-
	9 + 12	9 + 12	9 + 12	9 + 12	9 + 12
	-	12 + 12	9 + 18	9 + 18	9 + 18
	-	-	12 + 12	12 + 12	9 + 24
	-	-	12 + 18	12 + 18	12 + 12
	-	-	-	18 + 18	12 + 18
	-	-	-	-	12 + 24
	-	-	-	-	18 + 18
	-	-	-	-	18 + 24
	-	-	-	-	24 + 24
3 indoor units	-	9 + 9 + 9	9 + 9 + 9	9 + 9 + 9	9 + 9 + 9
	-	-	9 + 9 + 12	9 + 9 + 12	9 + 9 + 12
	-	-	-	9 + 9 + 18	9 + 9 + 18
	-	-	-	9 + 12 + 12	9 + 9 + 24
	-	-	-	12 + 12 + 12	9 + 12 + 12
	-	-	-	-	9 + 12 + 18
	-	-	-	-	9 + 12 + 24
	-	-	-	-	9 + 18 + 18
	-	-	-	-	9 + 18 + 24
	-	-	-	-	12 + 12 + 12
	-	-	-	-	12 + 12 + 18
	-	-	-	-	12 + 12 + 24
	-	-	-	-	12 + 18 + 18
	-	-	-	-	12 + 18 + 24
4 indoor units	-	-	-	9 + 9 + 9 + 9	9 + 9 + 9 + 9
	-	-	-	9 + 9 + 9 + 12	9 + 9 + 9 + 12
	-	-	-	-	9 + 9 + 9 + 18
	-	-	-	-	9 + 9 + 9 + 24
	-	-	-	-	9 + 9 + 12 + 12
	-	-	-	-	9 + 9 + 12 + 18
	-	-	-	-	9 + 12 + 12 + 12
	-	-	-	-	9 + 12 + 12 + 18
5 indoor units	-	-	-	-	12 + 12 + 12 + 12
	-	-	-	-	9 + 9 + 9 + 9 + 9
	-	-	-	-	9 + 9 + 9 + 9 + 12
	-	-	-	-	9 + 9 + 9 + 12 + 12

MULTISPLIT SOLUTIONS

FeelPlus+ Outdoor Units



FMVDT2818HE32

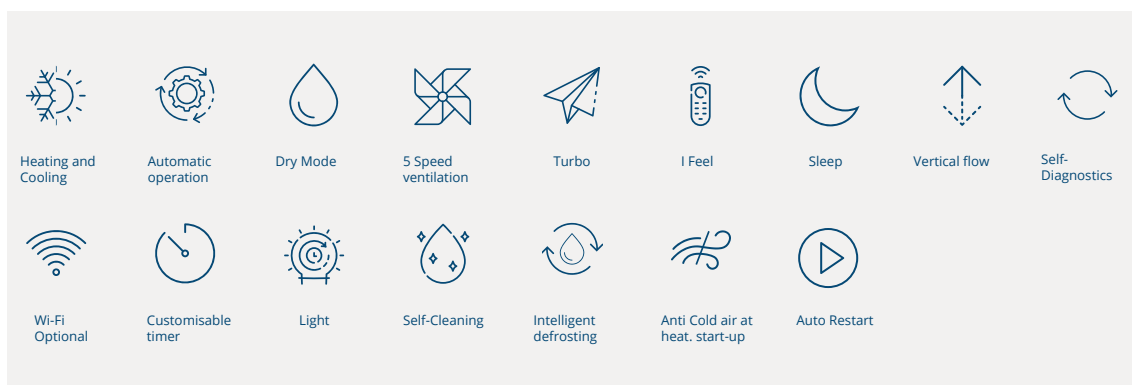


For data reference DIMENSIONS (HxWxD) and INTER-AXES measurements (L1 and P1) see table below

FEEL PLUS MODEL		O.U.	FMVD2020HE32	FMVDT2418HE32	FMVDT2818HE32	FMVTQ3418HE32	FMVQP4418HE32
Number of connections for indoor units			2	3	3	4	5
Power supply		V/Ph/Hz	230/1/50				
Seasonal efficiency in Cooling	Pdesign	kW	5.2	6.1	7.1	8.0	12.0
	SEER		6.1	6.1	6.1	6.1	6.1
	Annual energy consump.	kWh/a	298	350	407	459	689
	Energy label		A++	A++	A++	A++	A++
Seasonal efficiency in Heating - average climate zone	Pdesign	kW	3.8	6.1	6.1	7.2	11.8
	SCOP		4.0	4.0	4.0	4.0	4.0
	Annual energy consump.	kWh/a	1330	2135	2135	2520	4130
	Energy label		A+	A+	A+	A+	A+
Nominal cooling capacity (min-max)	kW		5.20 (2.14-5.80)	6.10 (2.20-7.32)	7.10 (2.29-8.50)	8.00 (2.29-10.26)	12.00 (2.60-13.00)
	BTU/h		17700 (7300-19800)	20813 (7500-25000)	24225 (7800-29000)	27296 (7800-35000)	40944 (8871-44356)
Nominal cooling electric power	kW		1.41	1.74	1.95	2.30	3.45
Nominal heating capacity (min-max)	kW		5.40 (2.58-5.92)	6.50 (3.60-8.50)	8.50 (3.66-8.79)	9.69 (3.66-10.26)	13.00 (2.60-14.50)
	BTU/h		18400 (8800-20200)	22178 (12300-29000)	29002 (12500-30000)	33064 (12500-35000)	44356 (8871-49474)
Nominal heating electric power	kW		1.23	1.60	2.20	2.61	3.50
EER / COP			3.69 / 4.39	3.51 / 4.06	3.64 / 3.86	3.48 / 3.71	3.48 / 3.71
Air flow volume	m³/h		2600	3200	4000	4000	5200
Sound pressure / Sound power	dB(A)		55 / 64	55 / 68	58 / 68	58 / 68	60 / 70
Outdoor unit dimensions (HxWxD)	mm		602x908x378	700x955x396	790x980x427	790x980x427	1106x1087x440
Leg spacing L1 x P1	mm		550 x 354	560 x 368	610 x 399	610 x 399	631 x 401
Outdoor unit net weight	kg		39.5	55	68	69	90
Pipe length: max with standard/total charge with additional charge/single pipe with additional charge	m		10/20/10	30/60/20	30/60/20	40/70/20	40/75/25
Max height difference	m		5	10	10	10	15
Liquid/gas pipe diameter	mm (inch)		6.35 (1/4") / 9.52 (3/8")	6.35 (1/4") / 9.52 (3/8")	6.35 (1/4") / 9.52 (3/8")	6.35 (1/4") / 9.52 (3/8")	6.35 (1/4") / 9.52 (3/8")
Refrigerant type/standard charge	type/kg		R32 / 1.00	R32 / 1.60	R32 / 1.80	R32 / 2.00	R32 / 2.75
Global warming potential / CO2 equiv. tons	GWP/tons		675 / 0.675	675 / 1.080	675 / 1.215	675 / 1.350	675 / 1.856
Refrigerant addition beyond max length with standard charge	g/m		20	20	20	20	20
Heating/cooling ambient operating temp. range	°C		-22 to 24 / -15 to 43				
FEEL PLUS CODE			2702544	2702541	2702542	2702543	2702545

MULTISPLIT SOLUTIONS

Multi Wall Syntek Shine



SKWM Wall

From **2 to 5 units**
indoor with only
one outdoor unit

TECHNICAL DATA

MODEL	WALL SKWM				
	I.U.	0919GHP-32	1219GHP-32	1819GHP-32	2419GHP-32
Power supply	V/Ph/Hz	230/1/50			
Nominal cooling capacity	kW	2.50	3.20	4.60	6.15
	BTU/h	8530	10918	15695	21000
Nominal heating capacity	kW	2.80	3.40	5.20	6.45
	BTU/h	9554	11601	17742	22000
Air flow volume (SH/H/MH/M/ML/L/SL)	m³/h	550/500/430/300	550/500/430/300	850/720/610/520	850/720/610/520
Sound pressure (SH/H/MH/M/ML/L/SL)	dB(A)	40/37/35/28	42/37/35/28	48/45/39/34	48/44/40/34
Sound power (SH/H/MH/M/ML/L/SL)	dB(A)	55/49/47/40	55/49/47/40	58/55/49/44	59/54/50/44
Dimensions (H x W x D)	mm	250x773x185	250x773x185	300x970x225	300x970x225
Net weight	kg	8.5	8.5	13.5	13.5
Liquid / gas pipe diameter	mm (inch")	6.35 (1/4") / 9.52 (3/8")	6.35 (1/4") / 9.52 (3/8")	6.35 (1/4") / 9.52 (3/8")	6.35 (1/4") / 15.8 (5/8")
CODE		2404001	2404002	2404003	2404004

OPTIONAL ACCESSORIES	CODE
Wi-Fi Module	2402049

Multi Syntek Shine **Possible Combinations**



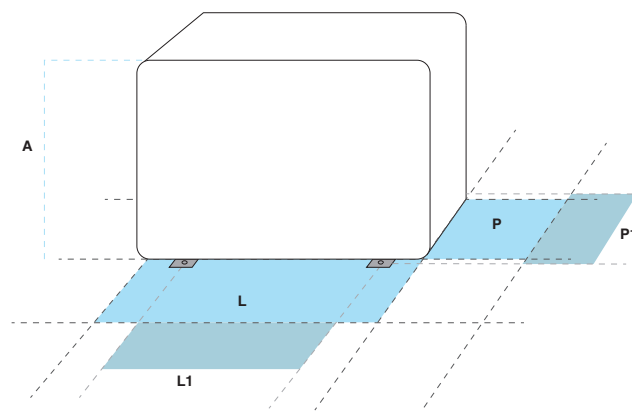
	SKVD2020GHP32	SKVDT2418GHP32	SKVDT2818GHP32	SKVTQ3418GHP32	SKVQP4418GHP32
2 indoor units	9 + 9	9 + 9	9 + 9	9 + 9	-
	9 + 12	9 + 12	9 + 12	9 + 12	9 + 12
	-	12 + 12	9 + 18	9 + 18	9 + 18
	-	-	12 + 12	12 + 12	9 + 24
	-	-	12 + 18	12 + 18	12 + 12
	-	-	-	18 + 18	12 + 18
	-	-	-	-	12 + 24
	-	-	-	-	18 + 18
	-	-	-	-	18 + 24
	-	-	-	-	24 + 24
3 indoor units	-	9 + 9 + 9	9 + 9 + 9	9 + 9 + 9	9 + 9 + 9
	-	-	9 + 9 + 12	9 + 9 + 12	9 + 9 + 12
	-	-	-	9 + 9 + 18	9 + 9 + 18
	-	-	-	9 + 12 + 12	9 + 9 + 24
	-	-	-	12 + 12 + 12	9 + 12 + 12
	-	-	-	-	9 + 12 + 18
	-	-	-	-	9 + 12 + 24
	-	-	-	-	9 + 18 + 18
	-	-	-	-	9 + 18 + 24
	-	-	-	-	12 + 12 + 12
	-	-	-	-	12 + 12 + 18
	-	-	-	-	12 + 12 + 24
4 indoor units	-	-	-	-	12 + 18 + 18
	-	-	-	9 + 9 + 9 + 9	9 + 9 + 9 + 9
	-	-	-	9 + 9 + 9 + 12	9 + 9 + 9 + 12
	-	-	-	-	9 + 9 + 9 + 18
	-	-	-	-	9 + 9 + 9 + 24
	-	-	-	-	9 + 9 + 12 + 12
	-	-	-	-	9 + 9 + 12 + 18
	-	-	-	-	9 + 12 + 12 + 12
5 indoor units	-	-	-	-	9 + 12 + 12 + 18
	-	-	-	-	12 + 12 + 12 + 12
	-	-	-	-	9 + 9 + 9 + 9 + 9
	-	-	-	-	9 + 9 + 9 + 9 + 12
	-	-	-	-	9 + 9 + 9 + 12 + 12

MULTISPLIT SOLUTIONS

Multi Syntek Shine Outdoor units



SKVD2020GHP-32



For data reference DIMENSIONS (HxWxD) and INTER-AXES measurements (L1 and P1) see table below

SYNTEK MODEL		O.U.	SKVD2020GHP-32	SKVDT2418GHP-32	SKVDT2818GHP32	SKVTQ3418GHP-32	SKVQP4418GHP-32
Number of connections for indoor units			2	3	3	4	5
Power supply		V/Ph/Hz	230/1/50				
Seasonal efficiency in Cooling	Pdesign	kW	5.2	6.1	7.1	8.0	12.0
	SEER		6.1	6.1	6.1	6.1	6.1
	Annual energy consump.	kWh/a	298	350	407	459	689
	Energy label		A++	A++	A++	A++	A++
Seasonal efficiency in Heating - average climate zone	Pdesign	kW	3.8	6.1	6.1	7.2	11.8
	SCOP		4.0	4.0	4.0	4.0	4.0
	Annual energy consump.	kWh/a	1330	2135	2135	2520	4130
	Energy label		A+	A+	A+	A+	A+
Nominal cooling capacity (min-max)	kW		5.20 (2.14-5.80)	6.10 (2.20-7.32)	7.10 (2.29-8.50)	8.00 (2.29-10.26)	12.00 (2.60-13.00)
	BTU/h		17700 (7300-19800)	20813 (7500-25000)	24225 (7800-29000)	27296 (7800-35000)	40944 (8871-44356)
Nominal heating power	kW		1.41	1.74	1.95	2.30	3.45
Nominal heating capacity (min-max)	kW		5.40 (2.58-5.92)	6.50 (3.60-8.50)	8.50 (3.66-8.79)	9.69 (3.66-10.26)	13.00 (2.60-14.50)
	BTU/h		18400 (8800-20200)	22178 (12300-29000)	29002 (12500-30000)	33064 (12500-35000)	44356 (8871-49474)
Nominal heating electric power	kW		1.23	1.60	2.20	2.61	3.50
EER / COP			3.69 / 4.39	3.51 / 4.06	3.64 / 3.86	3.48 / 3.71	3.48 / 3.71
Air flow volume	m³/h		2600	3200	4000	4000	5200
Sound pressure / Sound power	dB(A)		55 / 64	55 / 68	58 / 68	58 / 68	60 / 70
Dimensions (HxWxD)	mm		602x908x378	700x955x396	790x980x427	790x980x427	1106x1087x440
Leg spacing L1 and P1	mm		550 x 354	560 x 368	610 x 399	610 x 399	631 x 401
Net weight	kg		39.5	55	68	69	90
Pipe length: max with standard/total charge with additional charge/single pipe with additional charge	m		10/20/10	30/60/20	30/60/20	40/70/20	40/75/25
Max height difference	m		5	10	10	10	15
Liquid/gas pipe diameter	mm (inch")		6.35 (1/4") / 9.52 (3/8")	6.35 (1/4") / 9.52 (3/8")	6.35 (1/4") / 9.52 (3/8")	6.35 (1/4") / 9.52 (3/8")	6.35 (1/4") / 9.52 (3/8")
Refrigerant type/standard charge	type/kg		R32 / 1.00	R32 / 1.60	R32 / 1.80	R32 / 2.00	R32 / 2.75
Global warming potential / CO2 equiv. tons	GWP/tons		675 / 0.675	675 / 1.080	675 / 1.215	675 / 1.350	675 / 1.856
Refrigerant addition beyond max length with standard charge	g/m		20	20	20	20	20
Heating/cooling ambient operating temp. range	°C		-22 to 24 / -15 to 43				
SYNTEK CODE			2404051	2404052	2404053	2404054	2404055

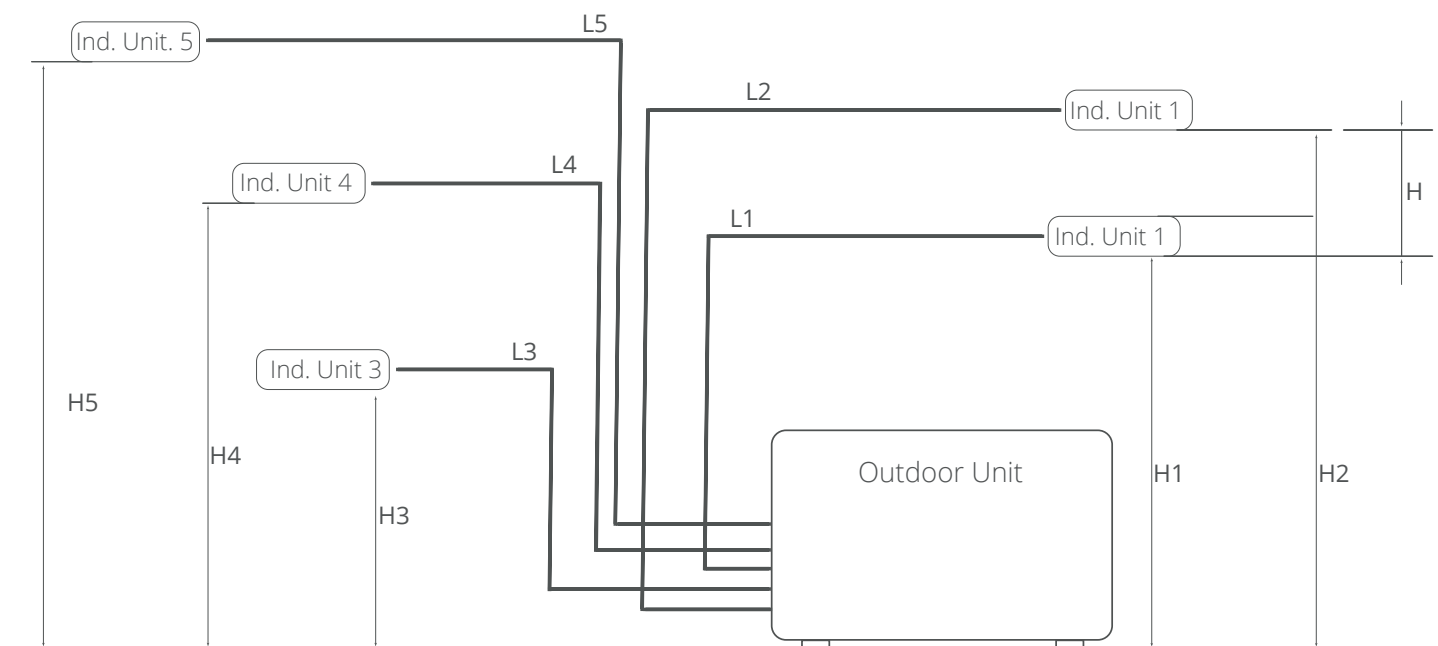
CONNECTION OF REFRIGERATION PIPES

Limits on **length** and **height difference** of refrigerant pipes

The length of the refrigerant pipes between the indoor and outdoor unit must be as short as possible and is limited by compliance with the maximum height difference between the units.

When installing the refrigerant pipes, both the length (L) and the height difference (H) must be minimised.

A minimum length of 2 metres per line is recommended.



QUANTITY OF REFRIGERANT

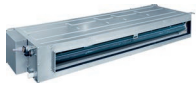
The following table shows the splitting and loading data. A minimum length of 2 metres per line is recommended.

OUTDOOR UNIT MODEL		FMVD / SKVD 2020	FMVDT / SKVDT 2418	FMVDT / SKVDT 2818	FMVTQ / SKVTQ 3418	FMVQP / SKVQP 4418
Refrigerant charge on shipment	kg	1	1.6	1.8	2	2.75
Liquid pipe diameter	mm / (inch)	6.35 - 1/4"				
Gas pipe diameter	mm / (inch)	9.52 - 3/8"				
Maximum pipe length with standard refrigerant charge	m	10	30	30	40	40
Additional quantity of refrigerant	g/m	20	20	20	20	20
Maximum total pipe length $L = L1 + L2 + L3 + L4 + L5$	m	20	60	60	70	75
Maximum single pipe length $L1, L2, L3, L4, L5$	m	10	20	20	20	25
Maximum height difference H1, H2, H3, H4, H5 with outdoor unit above indoor unit	m	5	10	10	10	15
Maximum height difference H1, H2, H3, H4, H5 with outdoor unit below indoor unit	m	5	10	10	10	15
Maximum height difference (H) between the various indoor units	m	5	10	10	10	7.5

N.B. additional compressor oil charge not required.



COMMERCIAL SOLUTIONS



DSV Ducted Air Conditioners

MONOSPLIT DUCTED AIR CONDITIONERS DC INVERTER



Floor - Ceiling Air Conditioner

MONOSPLIT FLOOR - CEILING AIR CONDITIONER DC INVERTER



Cassette Air Conditioner

MONOSPLIT CASSETTE AIR CONDITIONERS DC INVERTER



High-Pressure Ducted Air Conditioners

HIGH-PRESSURE DUCTED GAS AIR CONDITIONERS R410 GAS



Window Syntek Air Conditioner cooling only

MONOBLOCK AIR CONDITIONER DC INVERTER

MSV - Outdoor unit

An efficient air conditioning system must include the power and design of its outdoor units.

The use of high quality components, special focus on insulation and the robustness of the metal structure guarantee long life and resilience, even in the most troublesome climatic conditions.

The high drainage capacity of the outdoor unit's chassis prevents ice formation in the harshest climates and ensures optimum reliability and performance.

ECA Technology's range of commercial air conditioners meets the needs of the most varied installation requirements, adapting to industrial production areas, shops, supermarkets, offices, healthcare facilities, hotels, restaurants, bars and accommodation, public places and outdoor areas.



MSV1218

COMMERCIAL LINE OUTDOOR UNIT



MSV1818

COMMERCIAL LINE OUTDOOR UNIT



MSV2418

COMMERCIAL LINE OUTDOOR UNIT



MSV3618 / MSV4818

COMMERCIAL LINE OUTDOOR UNIT



MSV6018

COMMERCIAL LINE OUTDOOR UNIT



HMSV 2519 / 3019

COMMERCIAL LINE OUTDOOR UNIT

DSV - Ducted Air Conditioner

ECA Technology's **ducted units** are ideal for small commercial / tertiary applications.

These units feature an **ultra-thin design**: The height is only 200 mm for the DSV1218 and DSV1818 models, and 220 / 300 mm for all other models. Careful design has resulted in an evaporating coil that promotes more effective air exchange.

The centrifugal fan with DC Brushless motor provides a high air flow rate and complete silence.

Rear or bottom air intakes are available.



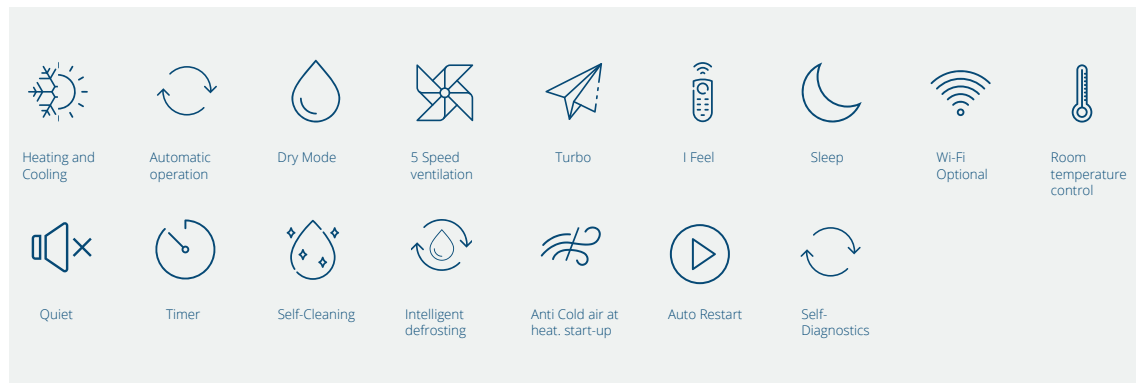
DSV Ducted



Wired control



DSV - Ducted Air Conditioner



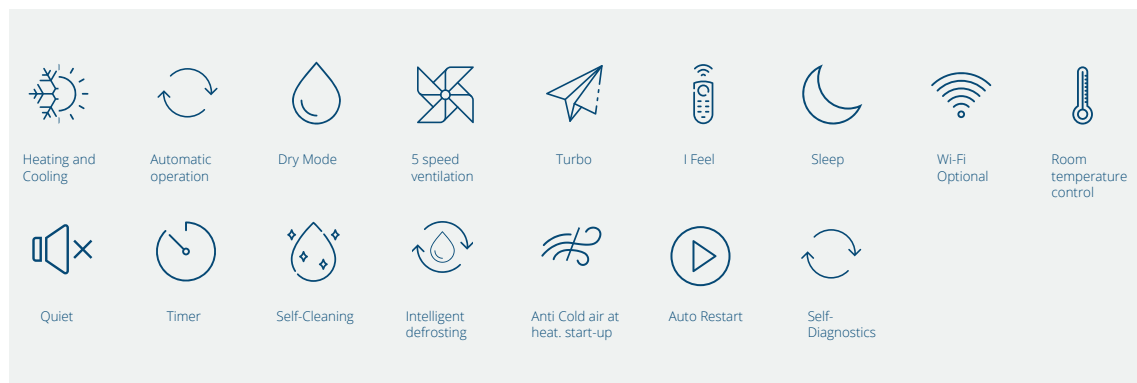
MODEL		I.U.	DSV1218HE32	DSV1818HE32	DSV2418HE32
		O.U.	MSV1218HE32	MSV1818HE32	MSV2418HE32
Power supply		V/Ph/Hz	230/1/50		
Seasonal efficiency in Cooling mode	Pdesign	kW	3.50	5.00	7.00
	SEER		6.10	6.10	6.80
	Annual energy consump.	kWh/a	200	277	357
	Energy Label		A++	A++	A++
Seasonal efficiency in Heating mode - average/warmer climate	Pdesign	kW	3.10	4.20	6.40
	SCOP		4.00	4.00	4.00
	Annual energy consump.	kWh/a	1110	1469	2238
	Energy Label		A+	A+	A+
Nominal cooling capacity (min-max)		kW	3.50 (0.90-4.00)	5.00 (1.60-5.50)	7.00 (2.40-8.00)
		BTU/h	11900 (3071-13648)	17000 (5459-18766)	23800 (8189-27296)
Nominal cooling electric power (min-max)		kW	0.95 (0.2-1.35)	1.55 (0.3-1.75)	2.10 (0.40-3.50)
Nominal heating capacity (min-max)		kW	4.00 (0.90-4.50)	5.50 (1.50-6.00)	8.20 (2.20-9.00)
		BTU/h	13600 (3071-15354)	18700 (5118-20472)	27990 (7506-30708)
Nominal heating electric power (min-max)		kW	1.05 (0.2-1.35)	1.45 (0.3-1.75)	2.19 (0.45-3.50)
EER / COP			3.68 / 3.81	3.23 / 3.79	3.33 / 3.74
Indoor unit air flow volume (SH/H/M/L)		m³/h	650/600/510/450	950/880/820/700	1200/1160/1090/940
Outdoor unit air flow volume		m³/h	3000	3000	3600
Indoor unit sound pressure (SH/H/M/L)		dB(A)	41/38/36/34	43/42/39/36	40/39/37/36
Indoor unit sound power (SH/H/M/L)		dB(A)	59	58	62
Outdoor unit sound pressure (H)		dB(A)	50	53	52
Outdoor unit sound power (H)		dB(A)	64	65	67
Indoor unit dimensions (HxWxD)		mm	200x700x450	200x1000x450	220x1300x450
Indoor unit weight		kg	19	25	30
Outdoor unit dimensions (HxWxD)		mm	596x818x302	596x818x302	698x892x340
Outdoor unit weight		kg	37	39	53
Pipe length: min-max with standard charge / with additional charge		m	7 / 30	7 / 35	7 / 50
Max height difference		m	15	20	25
Liquid/gas pipe diameter		mm (inch)	6.35 (1/4") / 9.52 (3/8")	6.35 (1/4") / 12.7 (1/2")	9.52 (3/8") / 15.8 (5/8")
Refrigerant type/standard charge		type/kg	R32 / 0.78	R32 / 1.00	R32 / 1.60
Global warming potential / CO2 equiv.tons		GWP/tons	675 / 0.527	675 / 0.675	675 / 1.080
Refrigerant addition beyond max length with standard charge		g/m	16	16	25
Heating/cooling ambient operating temp. range		°C	-20 to 24 / -20 to 48	-20 to 24 / -20 to 48	-20 to 24 / -20 to 48
CODE		I.U.	2701232	2701233	2701234
		O.U.	2701532	2701533	2701534

OPTIONAL ACCESSORIES	CODE
Circular nozzle section with 2 outlets Ø 160 mm for DSV1218	2701911
Circular nozzle section with 2 outlets Ø 200 mm for DSV1218	2701912
Circular nozzle section with 3 outlets Ø 160 mm for DSV1818	2701913
Circular nozzle section with 3 outlets Ø 200 mm for DSV1818	2701914
Circular nozzle section with 4 outlets Ø 200 mm for DSV2418	2701915
Wired controller with weekly timer	2701451
Wired controller for control of up to 36 indoor units*	2701456
Modbus Gateway	2701454
Wi-Fi Module	2701455
ON - OFF remote control kit (to be combined with wired controller)	2701450

* Each indoor unit must be equipped with a Modbus Gateway cod. 2701454 to enable communication with the central wired controller.

THE ABOVE TECHNICAL DATA REFERS TO EUROPEAN STANDARDS EN14511 AND EN14825. OUTDOOR UNITS CONTAIN FLUORINATED GREENHOUSE GASES GOVERNED BY THE KYOTO PROTOCOL

DSV - Ducted Air Conditioner



MODEL		I.U.	DSV3618HE32	DSV4818HE32	DSV6018HE32
		O.U.	MSV3618HE32	MSV4818HE32	MSV6018HE32
Power supply		V/Ph/Hz	400/3/50		
Seasonal efficiency in Cooling mode	Pdesign	kW	10.00	13.40	16.00
	SEER		6.10	5.60	6.10
	Annual energy consump.	kWh/a	577	837.5	918.03
	Energy Label		A++	not applicable	not applicable
Seasonal efficiency in Heating mode - average/warmer climate	Pdesign	kW	9.00	11.20	12.30
	SCOP		4.00	3.70	3.80
	Annual energy consump.	kWh/a	3218	4238	4532
	Energy Label		A+	not applicable	not applicable
Nominal cooling capacity (min-max)		kW	10.00 (3.20-11.00)	13.40 (6.00-14.20)	16.00 (6.80-16.80)
		BTU/h	34100 (10918-37532)	45700 (20472-48450)	54500 (23202-57322)
Nominal cooling electric power (min-max)		kW	3.15 (0.60-4.65)	4.70 (0.80-5.95)	5.45 (0.85-5.95)
Nominal heating capacity (min-max)		kW	12.00 (3.00-13.50)	15.50 (3.90-16.00)	17.00 (4.50-17.50)
		BTU/h	40900 (10236-46062)	52800 (13306-54592)	58000 (15345-59710)
Nominal heating electric power (min-max)		kW	3.50 (0.60-4.65)	4.45 (0.80-5.95)	5.00 (0.85-5.95)
EER / COP			3.17 / 3.43	2.85 / 3.48	2.94 / 3.40
Indoor unit air flow volume (SH/H/M/L)		m³/h	1800/1520/1380/1270	2200/2000/1730/1490	2400/1960/1670/1380
Outdoor unit air flow volume		m³/h	5900	5900	6600
Indoor unit sound pressure (SH/H/M/L)		dB(A)	46/44/42/40	43/41/40/38	44/41/39/38
Indoor unit sound power (SH/H/M/L)		dB(A)	65	68	68
Outdoor unit sound pressure (H)		dB(A)	55	57	57
Outdoor unit sound power (H)		dB(A)	70	72	72
Indoor unit dimensions (HxWxD)		mm	300x1000x700	300x1400x700	300x1400x700
Indoor unit weight		kg	40	49	56
Outdoor unit dimensions (HxWxD)		mm	820x940x460	820x940x460	1345x900x340
Outdoor unit weight		kg	89	99	112
Pipe length: min-max with standard charge / with additional charge		m	7 / 65	9.5 / 75	9.5 / 75
Max height difference		m	30	30	30
Liquid/gas pipe diameter		mm (inch)	9.52 (3/8") / 15.8 (5/8")	9.52 (3/8") / 15.8 (5/8")	9.52 (3/8") / 15.8 (5/8")
Refrigerant type/standard charge		type/kg	R32 / 2.50	R32 / 2.80	R32 / 3.60
Global warming potential / CO2 equiv.tons		GWP/tons	675 / 1.688	675 / 1.890	675 / 2.430
Refrigerant addition beyond max length with standard charge		g/m	35	40	40
Heating/cooling ambient operating temp. range		°C	-20 to 24 / -20 to 48	-20 to 24 / -20 to 48	-20 to 24 / -20 to 48
CODE		I.U.	2701235	2701236	2701237
		O.U.	2701535	2701536	2701537

OPTIONAL ACCESSORIES	CODE
Circular nozzle section with 3 outlets Ø 200 mm for DSV3618	2701916
Circular nozzle section with 4 outlets Ø 200 mm for DSV4818/6018	2701917
Wired controller with weekly timer	2701451
Wired controller for control of up to 36 indoor units*	2701456
Modbus Gateway	2701454
Wi-Fi Module	2701455
ON - OFF remote control kit (to be combined with wired controller)	2701450

* Each indoor unit must be equipped with a Modbus Gateway cod. 2701454 to enable communication with the central wired controller.

FSV - Floor - Ceiling Air Conditioner

The **floor-ceiling units** are ideal for applications in the small commercial/ tertiary sectors such as shops, offices, meeting rooms, hotels, restaurants, clubs, gyms and open space areas.

The compact design (only 235 mm deep) allows **versatile installation**.

The wide swing angle of the louvres also allows horizontal air flow for ceiling applications – this prevents direct air flows onto persons in the room.

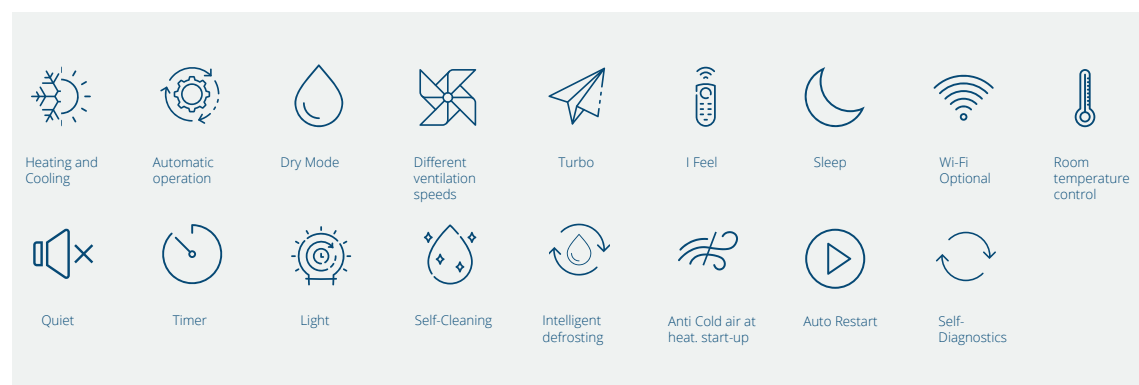
When the unit is switched off, the air delivery louvres can be completely closed to prevent dust from entering the unit and keep the air conditioner clean.



FSV Floor-Ceiling



FSV - Floor - Ceiling Air Conditioner



MODEL		I.U.	FSV1818HE32	FSV2418HE32	FSV3618HE32
		O.U.	MSV1818HE32	MSV2418HE32	MSV3618HE32
Power supply		V/Ph/Hz	230/1/50		
Seasonal efficiency in Cooling mode	Pdesign	kW	5.0	7.0	10.0
	SEER		6.1	6.8	6.1
	Annual energy consump.	kWh/a	284	359	561
	Energy Label		A++	A++	A++
Seasonal efficiency in Heating mode - average/warmer climate	Pdesign	kW	4.0	6.4	9.0
	SCOP		4.0	3.9	4.0
	Annual energy consump.	kWh/a	1394	2295	3146
	Energy Label		A+	A	A+
Nominal cooling capacity (min-max)		kW	5.00 (1.60-5.50)	7.00 (2.40-8.00)	10.00 (3.20-11.00)
		BTU/h	17000 (5459-18766)	23800 (8189-27296)	34100 (10918-37532)
Nominal cooling electric power (min-max)		kW	1.55 (0.30-1.75)	1.90 (0.40-3.50)	3.30 (0.60-4.65)
Nominal heating capacity (min-max)		kW	5.50 (1.50-6.00)	8.00 (2.20-9.00)	12.00 (2.90-14.50)
		BTU/h	18700 (5118-20472)	27200 (7506-30708)	40900 (10236-46062)
Nominal heating electric power (min-max)		kW	1.60 (0.30-1.75)	2.45 (0.45-3.50)	3.50 (0.60-4.65)
EER / COP			3.23/3.44	3.68/3.27	3.03/3.43
Indoor unit air flow volume (SH/H/M/L)		m³/h	850/800/700/600	1300/1220/1090/940	1600/1500/1350/1260
Outdoor unit air flow volume		m³/h	3000	3600	5900
Indoor unit sound pressure (SH/H/M/L)		dB(A)	44/42/39/36	45/44/41/38	49/47/45/43
Indoor unit sound power (SH/H/M/L)		dB(A)	57	57	61
Outdoor unit sound pressure (H)		dB(A)	53	52	55
Outdoor unit sound power (H)		dB(A)	65	67	70
Indoor unit dimensions (HxWxD)		mm	665x870x235	665x1200x235	665x1200x235
Indoor unit weight		kg	26	31	32
Outdoor unit dimensions (HxWxD)		mm	596x818x302	698x892x340	820x940x460
Outdoor unit weight		kg	39	53	89
Pipe length: min-max with standard charge / with additional charge		m	7 / 35	7 / 50	7 / 65
Max height difference		m	20	25	30
Liquid/gas pipe diameter		mm (inch")	6.35 (1/4") / 12.7 (1/2")	9.52 (3/8") / 15.8 (5/8")	9.52 (3/8") / 15.8 (5/8")
Refrigerant type/standard charge		type/kg	R32 / 1.00	R32 / 1.60	R32 / 2.50
Global warming potential / CO2 equiv.tons		GWP/tons	675 / 0.675	675 / 1.080	675 / 1.688
Refrigerant addition beyond max length with standard charge		g/m	16	25	35
Heating/cooling ambient operating temp. range		°C	-20 to 24 / -20 to 48	-20 to 24 / -20 to 48	-20 to 24 / -20 to 48
CODE		I.U.	2701133	2701134	2701135
		O.U.	2701533	2701534	2701535

OPTIONAL ACCESSORIES	CODE
Wired controller with weekly timer	2701451
Wired controller for control of up to 36 indoor units*	2701456
Modbus Gateway	2701454
Wi-Fi Module	2701455
ON - OFF remote control kit (to be combined with wired controller)	2701450

* Each indoor unit must be equipped with a Modbus Gateway cod. 2701454 to enable communication with the central wired controller.

CSV - Cassette Air Conditioner

Cassette units are ideal for applications in small commercial / tertiary sectors such as shops, offices, meeting rooms, hotels, restaurants, clubs, gyms and open space areas.

The units ensure **silent operation and optimum comfort** owing to a 360° air flow with motorised louvre swing range between 45 and 80°, which varies according to the hot/cold mode.

The high energy efficiency, at all power outputs, both for cooling and heating, allows optimal operation 365 days a year (seasonal efficiency).

The electrical box is made of fireproof material for enhanced protection from fire.



CSV Cassette



CSV - Cassette Air Conditioner



MODEL		I.U. O.U.	CSV1818HE32 MSV1818HE32	CSV2418HE32 MSV2418HE32	CSV3618HE32 MSV3618HE32	CSV4818HE32 MSV4818HE32
Power supply		V/Ph/Hz	230/1/50		400/3/50	
Seasonal efficiency in Cooling mode	Pdesign	kW	5.00	7.00	10.00	13.40
	SEER		5.90	7.20	6.10	6.10
	Annual energy consump.	kWh/a	296	340	553	768.85
	Energy Label		A+	A++	A++	not applicable
Seasonal efficiency in Heating mode - average/warmer climate	Pdesign	kW	4.00	6.40	9.00	11.20
	SCOP		4.00	3.90	4.00	4.00
	Annual energy consump.	kWh/a	1405	2297	3168	3920
	Energy Label		A+	A	A+	not applicable
Nominal cooling capacity (min-max)		kW	5.00 (1.60-5.50)	7.00 (2.40-8.00)	10.00 (3.20-11.00)	13.40 (6.00-14.20)
		BTU/h	17000 (5459-18766)	23800 (8189-27296)	34100 (10918-37532)	45700 (20472-48450)
Nominal cooling electric power (min-max)		kW	1.56 (0.30-1.75)	2.05 (0.40-3.50)	3.00 (0.60-4.65)	4.70 (0.80-5.95)
Nominal heating capacity (min-max)		kW	5.50 (1.50-6.00)	8.20 (2.20-9.00)	12.00 (3.00-13.50)	15.50 (3.90-16.00)
		BTU/h	18700 (5118-20472)	27990 (7506-30708)	40900 (10236-46062)	52800 (13306-54592)
Nominal heating electric power (min-max)		kW	1.65 (0.30-1.75)	2.19 (0.45-3.50)	3.40 (0.60-4.65)	4.45 (0.80-5.95)
EER / COP			3.21 / 3.33	3.41 / 3.74	3.33 / 3.53	2.85 / 3.48
Indoor unit air flow volume (SH/H/M/L)		m³/h	700/580/480/400	1100/1050/960/870	1500/1470/1380/1220	1900/1690/1480/1140
Outdoor unit air flow volume		m³/h	3000	3600	5900	5900
Indoor unit sound pressure (SH/H/M/L)		dB(A)	44/39/36/33	43/42/40/39	50/48/46/42	52/51/48/45
Indoor unit sound power (SH/H/M/L)		dB(A)	60	52	59	61
Outdoor unit sound pressure (H)		dB(A)	53	52	55	57
Outdoor unit sound power (H)		dB(A)	65	67	70	72
Indoor unit dimensions (HxWxD)		mm	265x570x570	240x840x840	240x840x840	290x840x840
Dimensions of IU ceiling grille (HxWxD)		mm	47.50x620x620	52x950x950	52x950x950	52x950x950
Indoor unit weight		kg	17 / 4.5	29 / 9.5	31 / 9.5	36 / 9.5
Outdoor unit dimensions (HxWxD)		mm	596x818x302	698x892x340	820x940x460	820x940x460
Outdoor unit weight		kg	39	53	89	99
Pipe length: min-max with standard charge / with additional charge		m	7 / 35	7 / 50	7 / 65	9.5 / 75
Max height difference		m	20	25	30	30
Liquid/gas pipe diameter		mm (inch")	6.35 (1/4") / 12.7 (1/2")	9.52 (3/8") / 15.8 (5/8")	9.52 (3/8") / 15.8 (5/8")	9.52 (3/8") / 15.8 (5/8")
Refrigerant type/standard charge		type/kg	R32 / 1.00	R32 / 1.60	R32 / 2.50	R32 / 2.80
Global warming potential / CO2 equiv.tons		GWP/tons	675 / 0.675	675 / 1.080	675 / 1.688	675 / 1.890
Refrigerant addition beyond max length with standard charge		g/m	16	25	35	40
Heating/cooling ambient operating temp. range		°C	-20 to 24 / -20 to 48	-20 to 24 / -20 to 48	-20 to 24 / -20 to 48	-20 to 24 / -20 to 48
CODE		I.U.	2701033	2701034	2701035	2701036
		O.U.	2701533	2701534	2701535	2701536
GRILLE CODE			2701490	2701491	2701491	2701491

OPTIONAL ACCESSORIES	CODE
Wired controller with weekly timer	2701451
Wired controller for control of up to 36 indoor units*	2701456
Modbus Gateway	2701454
Wi-Fi Module	2701455
ON - OFF remote control kit (to be combined with wired controller)	2701450

* Each indoor unit must be equipped with a Modbus Gateway cod. 2701454 to enable communication with the central wired controller.

THE ABOVE TECHNICAL DATA REFERS TO EUROPEAN STANDARDS EN14511 AND EN14825. OUTDOOR UNITS CONTAIN FLUORINATED GREENHOUSE GASES GOVERNED BY THE KYOTO PROTOCOL

HDSV - High-Pressure Ducted Air Conditioners

HDVM air conditioners are **R410 gas inverter monosplit air/air heat pumps** for ducted installation, available in power ratings from 20 kW up to 40 kW (40 kW model with 2 condensing units);

Indoor units are equipped with **DC inverter centrifugal fans** with high pressures up to 250Pa suitable for ducting for extended distances, they are supplied with wired controller for wall installation and natural condensate drainage;

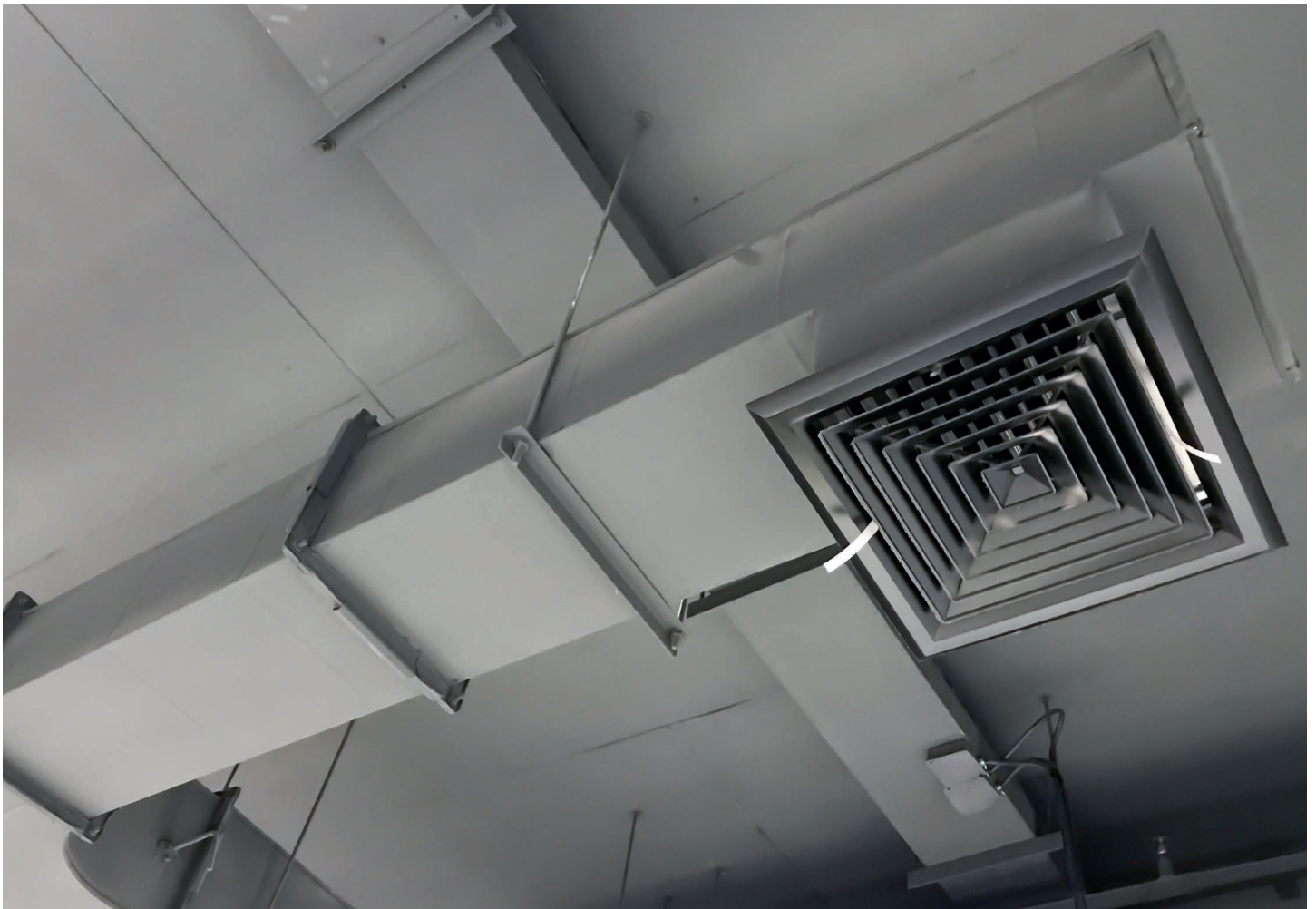
The outdoor unit is equipped with a DC inverter compressor and fan, electronic expansion valve, finned copper exchanger with special anti-corrosion treatment, and welded refrigerant fittings.



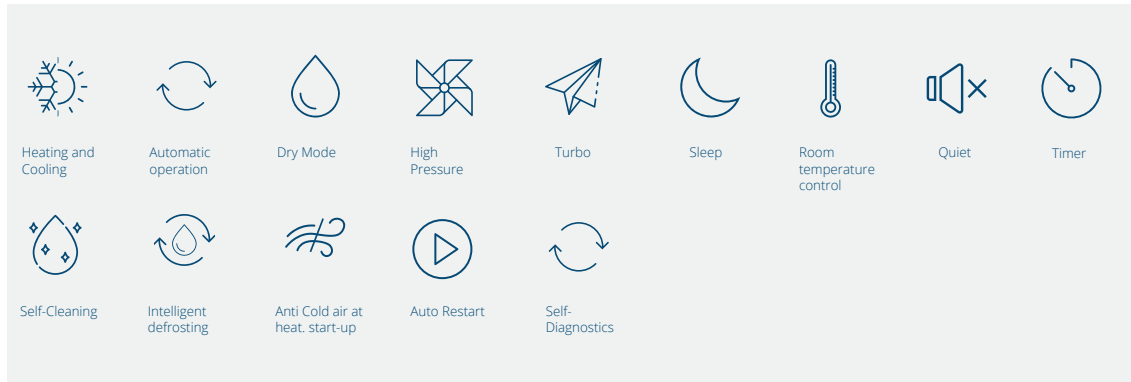
HDSV Ducted



Wired controller as standard



HDSV - High-Pressure Ducted Air Conditioners



MODEL	I.U.	HDSV2019HE10	HDSV2519HE10	HDSV3019HE10	HDSV4019HE10
	O.U.	HMSV2019HE10	HMSV2519HE10	HMSV3019HE10	HMSV2019HE10
Number of outdoor units		1	1	1	2
Power supply	V/Ph/Hz	400/3/50			
Nominal cooling capacity (min-max)	kW	20.00 (8.00-22.00)	25.00 (10.00-27.50)	30.00 (12.00-33.00)	40.00 (16.00-44.00)
Nominal cooling power input (min-max)	kW	7.80 (2.34-10.75)	9.44 (2.83-11.80)	11.30 (3.39-14.40)	15.45 (4.64-21.35)
Nominal heating capacity (min-max)	kW	22.00 (8.80-24.20)	27.50 (11.00-30.30)	33.00 (13.20-36.30)	43.00 (17.20-47.30)
Nominal heating power input (min-max)	kW	7.00 (2.80-9.75)	8.87 (3.55-10.80)	10.30 (4.12-13.50)	13.85 (5.54-19.35)
EER / COP		2.56 / 3.14	2.65 / 3.10	2.65 / 3.20	2.59 / 3.10
Indoor unit air flow volume	m³/h	3700	4200	5200	7000
Nominal static pressure	Pa	120	120	120	120
IU sound pressure (a/m/b delivery speed)	dB(A)	52 / 51 / 50	53 / 52 / 51	55 / 54 / 53	56 / 55 / 54
IU sound power (a/m/b delivery speed)	dB(A)	62 / 61 / 60	63 / 62 / 61	65 / 64 / 63	66 / 65 / 64
OU sound pressure	dB(A)	62	63	65	62
OU sound power	dB(A)	72	73	75	72
Indoor unit dimensions (HxWxD)	mm	385x1315x760	450x1520x840	450x1520x840	650x1680x900
Indoor unit weight	kg	82	99	105	165
Outdoor unit dimensions (HxWxD)	mm	1430x940x320	1615x940x460	1615x940x460	1430x940x320 (x2)
Outdoor unit weight	kg	120	146	175	120
Pipe length with standard charge / with additional charge	m	7.5 / 70	7.5 / 70	7.5 / 70	7.5 / 70
Max height difference	m	30	30	30	30
Liquid/gas pipe diameter	mm (inch)	9.52 (3/8") / 19.05 (3/4")	9.52 (3/8") / 22 (7/8")	12.7 (1/2") / 25.4 (1")	9.52 (3/8") / 19.05 (3/4")
Refrigerant type/standard charge	type/kg	R410A / 6.40	R410A / 8.00	R410A / 9.50	R410A / 6,40 (x2)
Global warming potential / CO2 equiv.tons	GWP/tons	2088 / 13.363	2088 / 16.704	2088 / 19.836	2088 / 13.363 (x2)
Refrigerant addition beyond max length with standard charge	g/m	54	54	110	54
Heating/cooling ambient operating temp. range	°C	-15 to 24 / -7 to 48	-15 to 24 / -7 to 48	-15 to 24 / -7 to 48	-15 to 24 / -7 to 48
CODE	I.U.	2701700	2701701	2701702	2701703
	O.U.	2701730	2701731	2701732	2701730 (x2)

Window type Syntek - Cooling

Immediate and simple room cooling is possible owing to ultra-compact solutions such as window type air conditioners in ecological R32 gas from the Syntek range.

The air conditioner designed specifically for the **summer air conditioning** of containers and prefabs is **hermetically sealed** and, therefore, features not only easy installation but also easy use owing to the practical **on-board control** that manages the various functions.

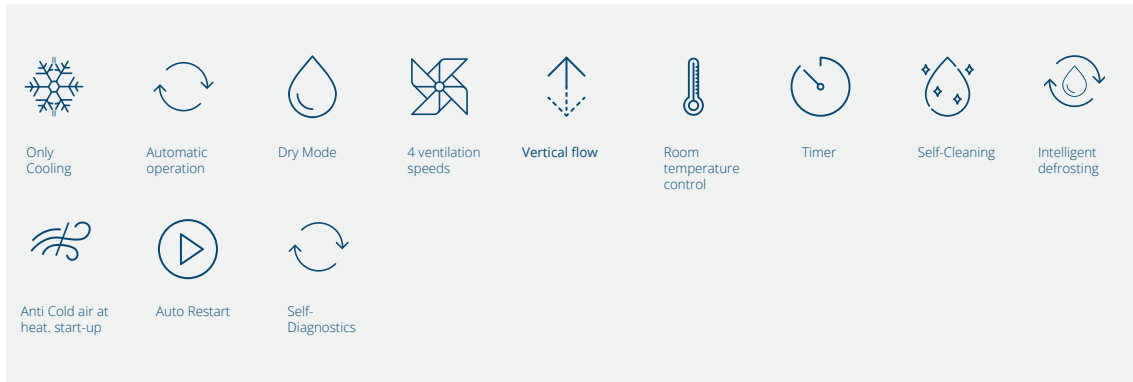
Ideal for prefabricated buildings, mobile offices.



Window Type



Window type Syntek - Cooling



MODEL		I.U.	SKWTV 0916 GCL32	SKWTV 1216 GCL32
Power supply		V/Ph/Hz	230/1/50	
Seasonal efficiency in Cooling	Pdesign	kW	2.70	3.70
	SEER		5.20	5.40
	Annual energy consump.	kWh/a	182	240
	Energy Label		A	A
Nominal cooling capacity		kW	2.7	3.65
		BTU/h	9212	12454
Nominal cooling power input (min-max)		kW	782	1030
EER			3.45	3.54
Air flow volume (max-med-min)		m³/h	400-360-320	480-430-380
Internal side sound pressure (max - med - min)		dB(A)	50-48-46	50-48-46
External side sound pressure (max - med - min)		dB(A)	56-54-52	58-56-54
Internal side sound power (max - med - min)		dB(A)	59-57-55	59-57-55
External side sound power (max - med - min)		dB(A)	65-63-61	65-63-61
Dimensions (H x W x D)		mm	375x560x708	428x660x700
Net weight		kg	43	50
Refrigerant type / Standard charge		type/kg	R32 / 0.51	R32 / 0.63
Global warming potential / Tons CO ₂ equivalent		GWP/tons	675 / 0.344	675 / 0.425
Refrigerant charge / tons		kg	0.51 / 0.344	0.63 / 0.425
Heating/cooling ambient operating temp. range		°C	16 - 43	16 - 43
CODE			2405000	2405001



E·PURO PURIFIERS

ECA Technology air purification devices in the E-PURO range are designed and engineered to provide an advanced level of air filtration. Integrated with the latest UVC technology and Plasma Generator, they sterilise air from pollutants and, at the end of the process, diffuse negative ions that are beneficial to health.

Pre-Filter

traps large particles, insects and other pollutants (PM50).

HEPA H13 Filter

in fibreglass to remove up to 99.5% of particles as small as 0.3 microns (PM2.5 and PM10).

Active Carbon Filter

to remove odours, fumes, formaldehyde and volatile organic compounds (VOCs).

TiO2 Photo-catalytic Filter

combined with the UVC lamp, neutralises the action of viruses, bacteria, moulds and spores in the environment.

UVC lamp (253.7 Nm)

which sterilises the air, eliminating bacteria, mould and spores in the environment.

Plasma Generator

Plasma generator that releases health-promoting ions of 5×10^6 pcs/cm.

Air quality indicator

PM2.5 level indicator in air of the room.

Signalling

Light and acoustic signal for HEPA filter and UVC lamp replacement.

Control panel

Touch screen control panel to control the main functions of the purifier.

Remote control

Remote control to control all functions of the purifier.

Child Lock

Child lock function to inhibit touch screen panel operation.

Quiet

The quiet function allows the enjoyment of the purifier's functions at night.

Shut-down timer

set automatic operation of the purifier, programming it according to your needs.

Wi-Fi

Wi-Fi module for interfacing with Tuya Smart application to manage all purifier functions.

ECA TECHNOLOGY AIR PURIFIERS

E·puro EP400 - Air purifier

Air purifier with an accurate detection system that continuously communicates the indoor air quality pollution index via a built-in LED bar – blue if the air in the room is optimum, green if the air in the room is good, red if the air in the room is bad.

The device aspirates the air, **captures and filters out pollutants** such as fine dust (PM10 and PM2.5 from the outside pollution), formaldehyde, pollen, allergens, airborne organic compounds, cleaning product gases, odours and fumes using **4 levels of filtration**:

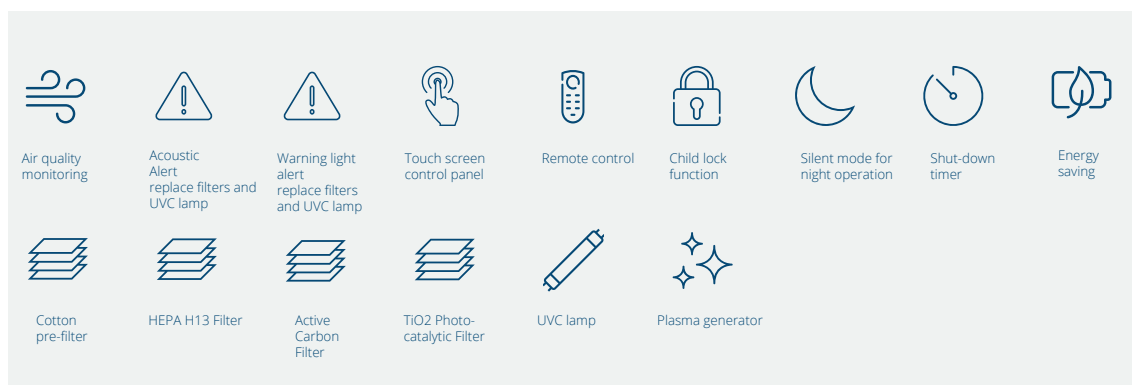
1. Cotton Pre-Filter
2. HEPA H13 Filter
3. Active Carbon Filter
4. TiO₂ Photo-catalytic Filter

It then **neutralises ultra-fine particles** as well as Viruses, Moulds and Bacteria using a germicidal sterilising **UVC Lamp**.

Lastly, it **diffuses health-beneficial sterilised air** using an integrated **Plasma Generator**. This is activated when the UVC lamp is in operation and releases positive and negative ions into the air. By increasing the size of the polluting particles, these ions enable the purifier's filters to trap them and eliminate them more easily.



E·puro EP400 - Air purifier



Ideal for areas up to **50 m²** in domestic, commercial environments such as offices, shops and schools.



E·puro EP400

MODEL		EP400GY
Power supply	V/Ph/Hz	230/1/50
Power consumption	W	46
Sound pressure (min-max)	dB(A)	25-50
Air flow volume	m³/h	320
Ventilation speed	No.	4
Dimensions (H x W x D)	mm	617x390x225
Net weight	kg	8.5
Operating temperature	°C	5~40
Filtration system	HEPA composite filter + cotton pre-filter, TiO2 photocatalytic filter, activated carbon filter, plasma generator and UVC lamp	
CODE		4900001

E·puro EP400 Spare parts



Filter KIT



UVC lamp

OPTIONAL ACCESSORIES	CODE
HEPA filter kit + Pre-filter + Activated carbon	4900011
6W UVC lamp	56000032

E·puro EP1200 - Air purifier

Air purifier with an accurate detection system that continuously communicates the indoor air quality pollution index via an LED indicator (visible on the touch screen) of the level of PM2.5 (fine dust) in the room air.

The device aspirates the air, **captures and filters out pollutants** such as fine dust (PM10 and PM2.5 from the outside pollution), formaldehyde, pollen, allergens, airborne organic compounds, cleaning product gases, odours and fumes using **3 levels of filtration**:


1. Pre-Filter
2. HEPA H13 Filter
3. Active Carbon Filter

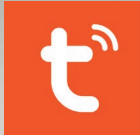


It then **neutralises ultra-fine particles as well as Viruses**, Moulds and Bacteria using a germicidal sterilising **UVC Lamp**.

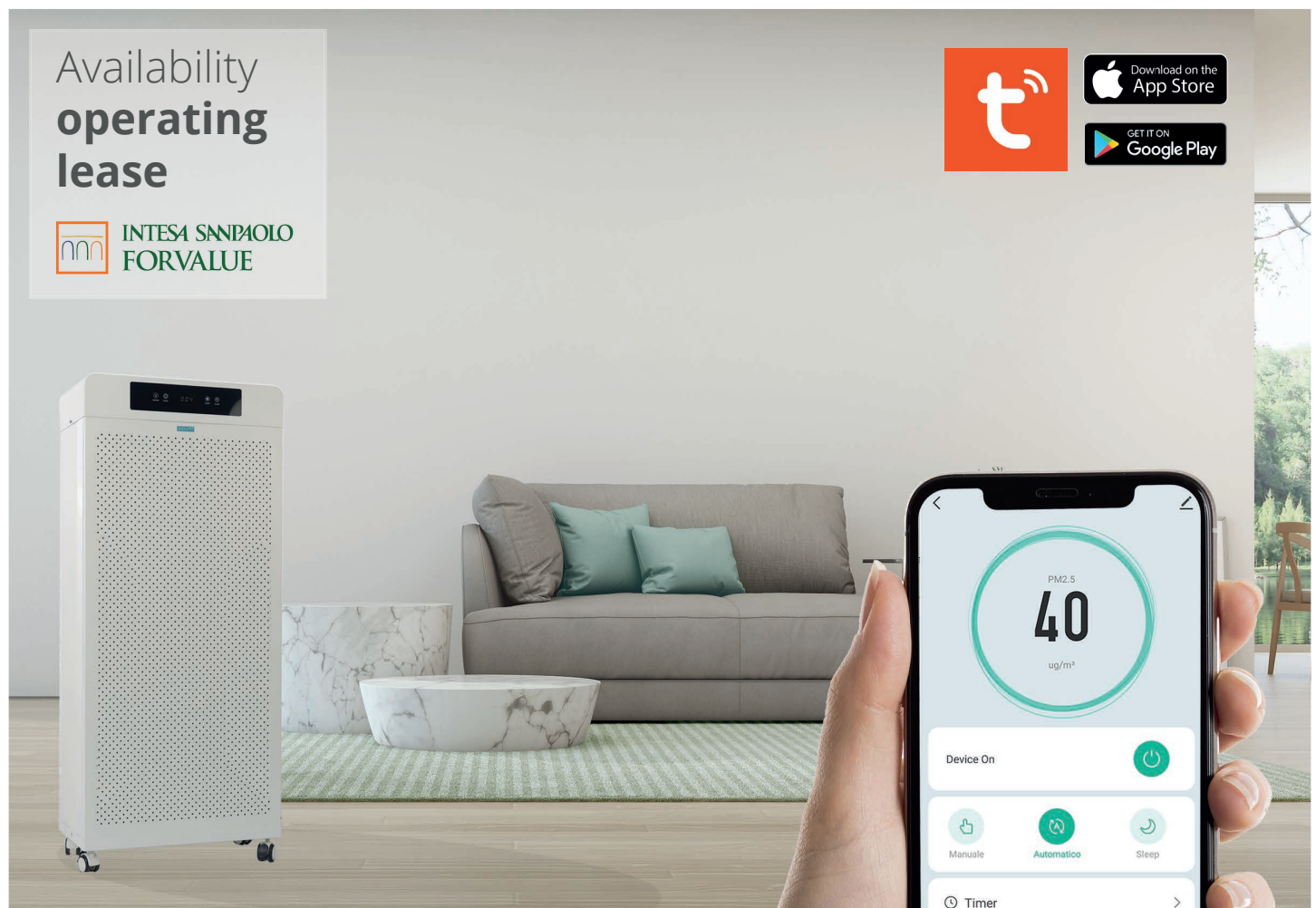
Lastly, it **diffuses health-beneficial sterilised air** using an integrated **Plasma Generator**. This is activated when the UVC lamp is in operation, and releases positive and negative ions into the air. By increasing the size of the polluting particles, these ions enable the purifier's filters to trap them and eliminate them more easily.

The device includes a **Wi-Fi module** for interfacing it with the Tuya SMART application which enables all the purifier functions to be controlled and air quality levels displayed.

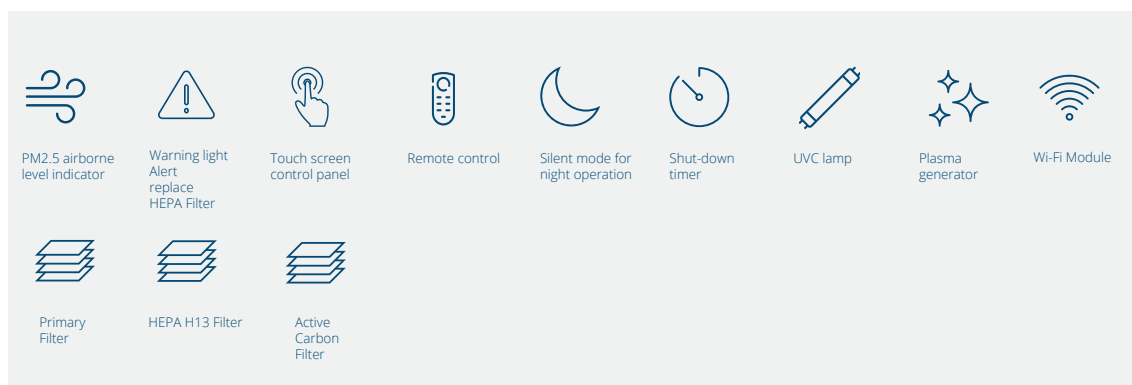
Availability
**operating
lease**

 **INTESA SANPAOLO
FORVALUE**



E·puro EP1200 - Air purifier



Ideal for areas up to **150 m²** in commercial environments such as offices or shopping centres, professional environments such as doctors' surgeries, dentists' surgeries, waiting rooms, public environments such as schools, meeting rooms, bars or restaurants.

Availability
**operating
lease**



**INTESA SANPAOLO
FORVALUE**



E·puro EP1200

MODEL		EP1200GY
Power supply	V/Ph/Hz	230/1/50
Power consumption	W	110
Sound pressure (min-max)	dB(A)	28-46
Air flow volume	m³/h	1200
Ventilation speed	No.	3
Dimensions (H x W x D)	mm	1320x570x320
Net weight	kg	39
Operating temperature	°C	5~40
Filtration system	Primary filter, HEPA filter, activated carbon filter, plasma generator and UVC lamp	
CODE		4900003

E·puro EP1200 Spare parts



Filter KIT



UVC lamp

OPTIONAL ACCESSORIES	CODE
HEPA filter kit + Pre-filter + Activated carbon	4900013
6W UVC lamp	56000026

The **first**
trivalent heat pump
made in the **world**



ACQUAINVERTER®



WRHL Acqua inVerter® Monoblock

VERSION WITH BUILT-IN 195L ACS STAINLESS STEEL WATER HEATER (SOLAR READY)



WA Acqua inVerter® Universal

VERSION WITH BUILT-IN 80L PUFFER



WM Acqua inVerter® Compact

COMPACT VERSION



ECAPOOL

HEAT PUMP FOR POOLS

The well-being of **Energy Saving**

Acquainverter® heat pump technology guarantees optimal efficiency for **heating** and **air conditioning** indoor environments using the **free, ecological and renewable energy** present in the outside air that surrounds us. Heat pumps are the ideal solution for reducing energy consumption and CO2 emissions while safeguarding the planet.

Air is a freely available, limitless resource, and always contains heat, even when it is very cold outside, which means that any air temperature contains thermal energy that can be used for the efficient operation of a heat pump;

Acquainverter® heat pumps guarantee the production and storage of domestic hot water at any time of year and offer the option of being completely integrated with the production of energy from renewable sources – electricity from photovoltaic solar energy with storage and/or thermal energy from solar water heating;

The **transfer of the thermal energy** generated by a heat pump to the **interior of a building** can take place via the most diverse system solutions, such as **radiant hydronic systems** (underfloor), **ventilated systems** (fan coil units), or **hybrid units** (V-Radiant) allowing the creation of **NZeb** (Near Zero energy buildings).



Features



Heating and Cooling

Heat pump for heating, cooling of rooms (max. water temperature 55°).



Condensation Control

Automatic function that measures the condensation temperature and, based on this, switches the fan(s) off or on to ensure optimal levels of efficiency.



Domestic hot water

Heat pump for domestic hot water production (max. water temperature 55°)



Anti-Legionella

Activation of the anti-legionella cycle for weekly heating of the entire tank to thermal shock temperature.



Defrosting

Automatic cycle reversal and base heating cable to prevent ice formation during winter operation.



Climate control

Intelligent self-regulation of the heating/air conditioning setpoint temperature according to the outside temperature.



Corrosion protection

Heat exchanger coils with corrosion protection – manganese aluminium coil fins.



Solar water heating management

Electronics designed to control solar water heating pumping assembly.



Silent Operation

Brushless DC axial fans (aerodynamic optimisation, reduced noise level, increased efficiency and air flow rate).



Energy saving

Activation of energy saving mode using potential free contact.



Auto-restart

Restart in the event of power cut.



DHW only operation

Exclusion of cooling and heating functions using potential free contact.



Self-Diagnostics

Automatic troubleshooting for easy maintenance.



Digital panel

Allows simple management of the main control activities, continuously communicates temperature states of the water while storing all the information needed to control and manage optimum levels of climatic comfort.



Weekly Programme

Set up the different functions of the Acquainverter®, programming it according to your needs for the desired time slots.

Acquainverter® Air-to-water heat pump

Acquainverter® is a **R410A split heat pump** designed by ECA Technology to satisfy the most diverse system solutions in residential and commercial sectors, owing to a range consisting of 3 product families, each of which is available in 4 power sizes from 7 to 18kW:

WRHL: version with built-in 195L stainless steel DHW water heater (solar water heating ready);

WA: version with built-in 80L puffer;

WM: compact version for applications with external DHW water heater and puffer;

Acquainverter® control electronics allow the working parameters to be customised according to the most diverse system and climatic requirements, including – management of the climate temperature curve for the heating/air conditioning system, management of the external solar system, management of the DHW water heater anti-legionella cycle, availability of potential free contacts for third party control, energy saving function to optimise management costs, detailed self-diagnostics, load partialisation logic and uniform wear of outdoor units (dual versions);

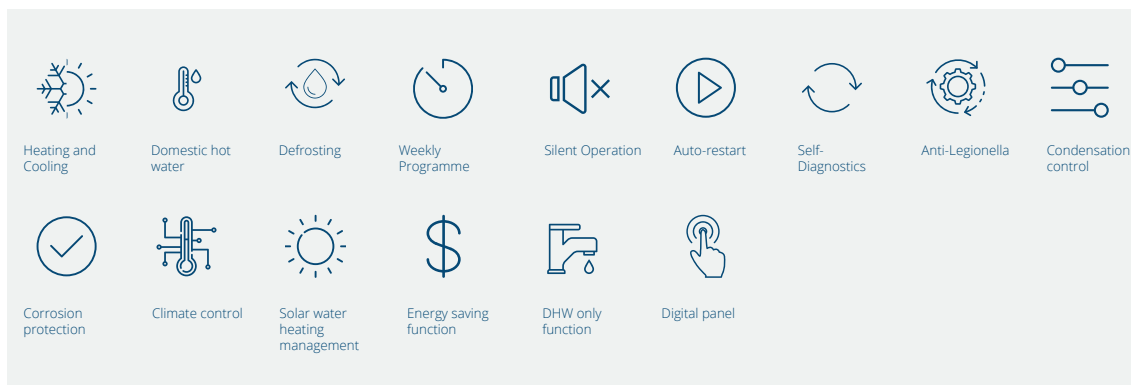
Acquainverter® is an inverter heat pump that produces **hot water up to 55°C** for domestic use even with outdoor temperatures of -15°C, using a split-system, DC inverter heat pump system. The water temperature can be adjusted from 30°C to 50°C on domestic hot water and heating.

Acquainverter® supplies **chilled water for cooling from 7°C to 25°C** for radiant systems or with ventilated units;

The wide range of DHW water heaters and puffers is a perfect complement for all types of systems;



WRHL Monoblock



I Plus

- Version with built-in 195L AISI316 stainless steel water heater with magnesium anode protection;
- Stainless steel thermostated electric heater for anti-legionella function (optional);
- Fixed coil for solar water heating integration (standard);
- Maximum outdoor unit splitting up to 25m (models 11 and 20) and 20m (models 9 and 15);
- High efficiency primary water circulator;
- Overpressure safety valves (system and DHW);
- AISI 316L stainless steel plate exchangers;
- System and DHW temperature probes on board unit;
- System and DHW expansion tanks on board unit;

MODEL	I.U.	WRH09L	WRH11L	WRH15L	WRH20L
	O.U.	COH4514HE10/1	COH6514HE10/1	COH4514HE10/1	COH6514HE10/1
OU Number		1	1	2	2
Power supply	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50
Nominal heating capacity (nom-max) ¹	kW	5.40-7.20	6.30-9.10	10.80-14.70	12.60-18.20
COP (nom) ¹		3.60	3.32	3.65	3.37
Nominal cooling capacity (nom-max) ²	kW	4.50-6.00	6.15-7.00	9.00-12.00	12.30-14.00
EER ²		3.17	3.38	3.21	3.44
Sound pressure (max)	dB(A)	56	58	56	58
O.U. dimensions (WxHxD)	mm	955x700x396	980x790x427	955x700x396	980x790x427
O.U. weight	kg	51	65	51x2	65x2
IU dimensions (WxHxD)	mm	704x1800x604	704x1800x604	704x1800x604	704x1800x604
I.U. weight in operation	kg	382	382	399	399
STAINLESS STEEL water heater capacity	l	195	195	195	195
Refrigerant / Pre-charge	type/kg	R410A / 1.65	R410A / 2.00	R410A / 1.65	R410A / 2.00
Global warm potential / CO2 equivalent	GWP / tons	2088 / 3.445	2088 / 4.176	2088 / 3.445	2088 / 4.176
CODE	I.U.	00012WRH52	00012WRH62	00012WRH82	00012WRH92
	O.U.	2701613/1	2701616/1	2701613/1	2701616/1

ACCESSORIES - PUFFER WRHC60		
Dimensions (WxHxD)	mm	605x805x705
Unladen weight (in operation)	kg	57 (117)
Puffer capacity	l	60
CODE		0001480

ACCESSORIES
Anti-legionella stainless steel electric element
Initial start-up service
*net price

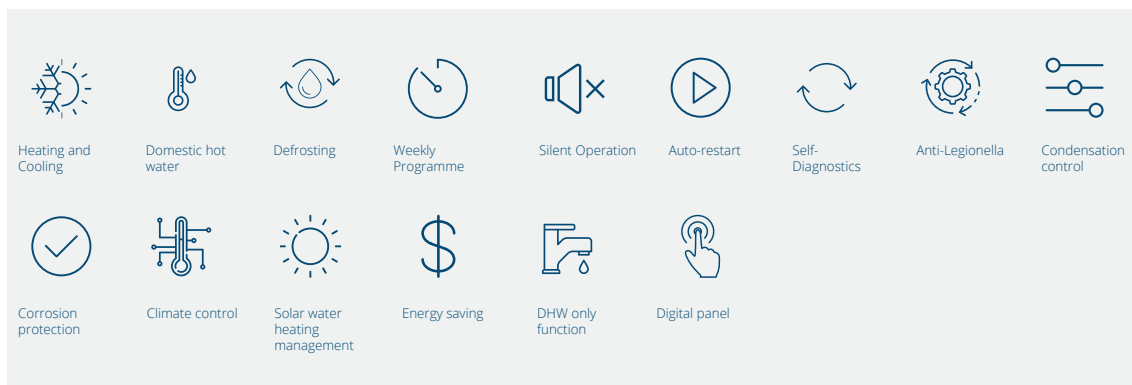
SOLAR WATER HEATING ACCESSORIES	Code	ESPS210	ESPS260
Selective collector ESPS210 steel frame	1901100	1	-
Selective collector ESPS260 steel frame	1901101	-	1
High-efficiency hydraulic assembly complete with HE pump, deaerator, valve	1902303HE	1	1
Expansion tank 18L	1902302	1	1
Expansion tank connection pipe	1902601	1	1
Expansion tank support base	1902602	1	1
Glycol Tank 10L	1901502	1	1
Support for 1 collector	1902500	1	1
Hydraulic connection accessories for 1/2 collectors	1902401	1	1

Nominal efficiency under the following conditions, in accordance with UNI EN 14511: 2011

(1) Winter: outside air temperature 7°C DB/ 6°C WB; water temperature 45/40° (2) Summer: outside air temperature 35°C DB / 24°C WB; water temperature 7/12°C

NOTE: THE ABOVE PRODUCTS CONTAIN FLUORINATED GREENHOUSE GASES GOVERNED BY THE KYOTO PROTOCOL.

WA Universal



I Plus

- 70L puffer for built-in heating/air conditioning system;
- Maximum outdoor unit splitting up to 25m (models 11 and 20) and 20m (models 9 and 15);
- High-efficiency water circulators (primary circulator and DHW circulator);
- System overpressure safety valve;
- System water inlet fitting;
- AISI 316L stainless steel plate exchangers;
- System and DHW temperature probes on board unit;
- System and DHW expansion tanks on board unit;

MODEL	I.U.	WA09	WA11	WA15	WA20
	O.U.	COH4514HE10/1	COH6514HE10/1	COH4514HE10/1	COH6514HE10/1
OU Number		1	1	2	2
Power supply	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50
Nominal heating capacity (nom-max) ¹	kW	5.40-7.20	6.30-9.10	10.80-14.70	12.60-18.20
COP (nom) ¹		3.60	3.32	3.65	3.37
Nominal cooling capacity (nom-max) ²	kW	4.50-6.00	6.15-7.00	9.00-12.00	12.30-14.00
EER ²		3.17	3.38	3.21	3.44
Sound pressure (max)	dB(A)	56	58	56	58
O.U. dimensions (WxHxD)	mm	955x700x396	980x790x427	955x700x396	980x790x427
O.U. weight	kg	51	65	51	65
IU dimensions (WxHxD)	mm	705x1205x505	705x1205x505	705x1205x505	705x1205x505
I.U. weight in operation	kg	186	186	198	198
Built-in puffer capacity	l	70	70	70	70
Refrigerant / Pre-charge	type/kg	R410A / 1.65	R410A / 2.00	R410A / 1.65	R410A / 2.00
Global warm potential / CO ₂ equivalent	GWP / tons	2088 / 3.445	2088 / 4.176	2088 / 3.445	2088 / 4.176
CODE	I.U.	00012WA22	00012WA32	00012WA52	00012WA70
	O.U.	2701613/1	2701616/1	2701613/1	2701616/1

MODEL HEATING AND AIR CONDITIONING ONLY	I.U.	WA09HC	WA11HC	WA15HC	WA20HC
	O.U.	COH4514HE10/1	COH6514HE10/1	COH4514HE10/1	COH6514HE10/1
CODE	I.U.	00012WA22A	00012WA32A	00012WA52A	00012WA70A
	O.U.	2701613/1	2701616/1	2701613/1	2701616/1

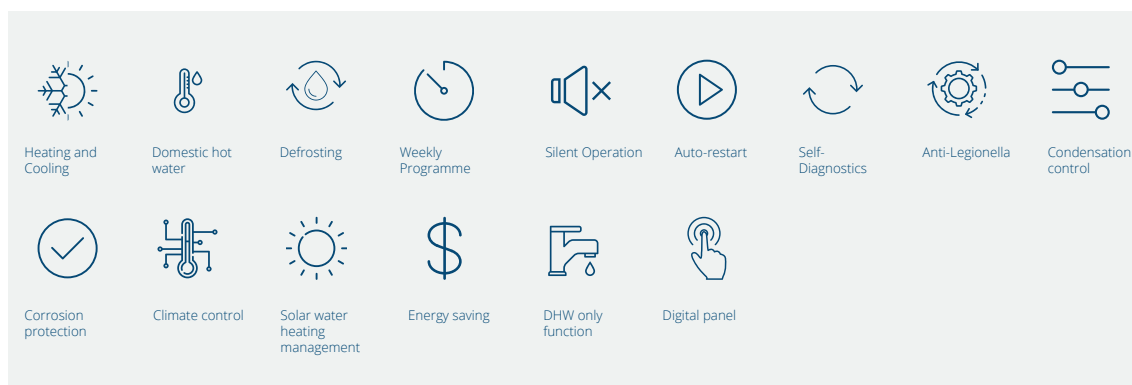
ACCESSORIES

Initial start-up service
*net price

Nominal efficiency under the following conditions, in accordance with UNI EN 14511: 2011

(1) Winter: outside air temperature 7°C DB/ 6°C WB; water temperature 45/40° (2) Summer: outside air temperature 35°C DB / 24°C WB; water temperature 7/12°C

WM Compact



I Plus

- Compact dimensions and all connections on top side;
- Maximum outdoor unit splitting up to 25m (models 11 and 20) and 20m (models 9 and 15);
- High-efficiency water circulators (primary circulator and DHW circulator);
- System overpressure safety valve;
- AISI 316L stainless steel plate exchangers;
- System and DHW temperature probes on board unit;
- System and DHW expansion tanks on board unit;

MODEL	I.U.	WM09	WM11	WM15	WM20
	O.U.	COH4514HE10/1	COH6514HE10/1	COH4514HE10/1	COH6514HE10/1
OU Number		1	1	2	2
Power supply	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50
Nominal heating capacity (nom-max) ¹	kW	5.40-7.20	6.30-9.10	10.80-14.70	12.60-18.20
COP (nom) ¹		3.60	3.32	3.65	3.37
Nominal cooling capacity (nom-max) ²	kW	4.50-6.00	6.15-7.00	9.00-12.00	12.30-14.00
EER ²		3.17	3.38	3.21	3.44
Sound pressure (max)	dB(A)	56	58	56	58
O.U. dimensions (WxHxD)	mm	955x700x396	980x790x427	955x700x396	980x790x427
O.U. weight	kg	51	65	51	65
IU dimensions (WxHxD)	mm	582.5x900x481	582.5x900x481	582.5x900x481	582.5x900x481
I.U. weight in operation	kg	115	115	129	129
Refrigerant / Pre-charge	type/kg	R410A / 1.65	R410A / 2.00	R410A / 1.65	R410A / 2.00
Global warm potential / CO ₂ equivalent	GWP / tons	2088 / 3.445	2088 / 4.176	2088 / 3.445	2088 / 4.176
CODE	I.U.	00012WM22	00012WM32	00012WM52	00012WM62
	O.U.	2701613/1	2701616/1	2701613/1	2701616/1

MODEL HEATING AND AIR CONDITIONING ONLY	I.U.	WM09HC	WM11HC	WM15HC	WM20HC
	O.U.	COH4514HE10/1	COH6514HE10/1	COH4514HE10/1	COH6514HE10/1
CODE	I.U.	00012WM22A	00012WM32A	00012WM52A	00012WM62A
	O.U.	2701613/1	2701616/1	2701613/1	2701616/1

DOMESTIC VERSION ONLY	I.U.	WM09S	WM11S	WM15S	WM20S
	O.U.	COH4514HE10/1	COH6514HE10/1	COH4514HE10/1	COH6514HE10/1
CODE	I.U.	00012WM22B	00012WM32B	00012WM52B	00012WM62B
	O.U.	2701613/1	2701616/1	2701613/1	2701616/1

ACCESSORIES

Initial start-up service
*net price

Nominal efficiency under the following conditions, in accordance with UNI EN 14511: 2011
(1) Winter: outside air temperature 7°C DB/ 6°C WB; water temperature 45/40° (2) Summer: outside air temperature 35°C DB / 24°C WB; water temperature 7/12°C

NOTE: THE ABOVE PRODUCTS CONTAIN FLUORINATED GREENHOUSE GASES GOVERNED BY THE KYOTO PROTOCOL.

ECA POOL - Heat pump for pools

ECA POOL, the heat pump for **heating large and small indoor and outdoor swimming pools**, is an effective solution for heating water to the desired temperature and thus enjoying the pleasures of using the pool all year round.

ECA POOL makes it possible to extend swimming pool opening times and can be used in tourist facilities or residential applications, while achieving optimal savings in energy owing to its exclusive DC Inverter technology.

ECA POOL heat pumps are the most effective solution for heating outdoor pools **for periods when there is insufficient exposure to the sun**.

ECA POOL is an R410A gas, split-system heat pump that integrates easily into both existing and new pools. It includes a small size indoor unit (58.3 x 48.1 x 90 cm) combined with one or two external condensing units (mod. EP 101, mod. EP 201).

The special size and shape of the ECAPOOL heating unit allows it to fit into small technical areas.

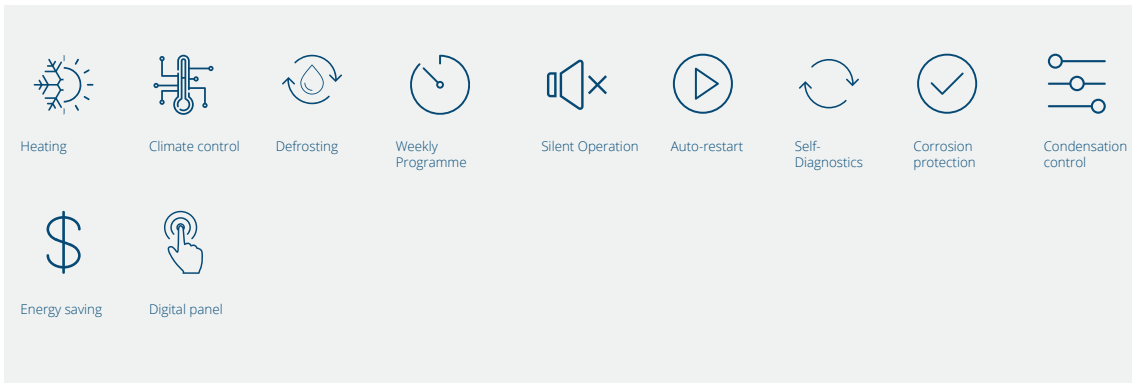
DC Inverter technology allows the heat pump to operate at outdoor temperatures from 40°C down to -15°C; ECA POOL with its DC Inverter compressors ensures very high COP in all operating conditions.



ECA POOL



ECA POOL - Heat pump for pools



I Plus

The ECAPOOL indoor hydronic unit is equipped with **parametric control electronics** and a **digital control panel** which allows customisation of the operating parameters according to the most diverse system and climatic requirements, including: management of the climate temperature curve, availability of potential free contacts for third party control, energy saving function to optimise operating costs, detailed self-diagnostics, load partialisation logic and uniform wear of outdoor units (dual versions);

MODEL	I.U.	EP101	EP201
	O.U.	COH6514HE10/1 EP	COH6514HE10/1 EP (x2)
Power supply	V/Ph/Hz	230/1/50	230/1/50
Nominal heating capacity (1)	kW	11.20	22.40
Nominal heating capacity (2)	kW	12.20	24.40
Nominal heat. electric power	kW	0.40 - 2.20	0.80 - 4.40
C.O.P. (1)	W/W	5.40	5.45
C.O.P. (2)	W/W	6.20	6.25
Nominal water flow rate (ΔT 2.5°C)	l/h	3600	7200
Exchanger pressure drop	m H ₂ O	0.64	0.64 x 2
Hydraulic fitting diameter	mm (inch")	50 (1" ½)	63 (2")
Water temperature range set	°C	15 - 30	15 - 30
O.U. sound pressure	dB(A)	58	58
O.U. sound power	dB(A)	68	68
Refrigerant Type/ GWP		R410A / 2088	R410A / 2088
Refrigerant quantity / CO ₂ equivalent	kg	2.0 / 4.176	2.0 / 4.176
Pipe diameter (liquid – gas)	mm (inch")	1/4" - 5/8"	1/4" - 5/8"
Max-min length with standard charge/additional charge/max height difference	m	2-6 / 20 / 10	2-6 / 20x2 / 10
Additional refrigerant charge	g/m	50	50
I.U. net dimensions (WxHxD)	mm	583 x 900 x 481	583 x 900 x 481
I.U. net weight	kg	80	80
O.U. maximum dimensions (WxHxD)	mm	980 x 790 x 396	980 x 790 x 396
Outdoor unit net weight	kg	65	65
Outdoor operating temperature min-max heat.	°C	-15 - 40	-15 - 40
CODE	I.U.	0001507	0001508
	O.U.	2701617/1	2701617/1 (x2)

(1) Outdoor temperature 15°C – Water temperature 25°C
(2) Outdoor temperature 35°C – Water temperature 28°C



ACQUAINVERTER® SMART



Acquainverter® SMART is a **reversible DC inverter outdoor monoblock heat pump** that uses ecological **R32** gas for residential and commercial applications to produce **domestic hot water, hot water for heating and chilled water for cooling**.

ECA Technology's experience combined with the sophisticated technology that has been developed to optimise winter operation allows it to achieve the highest performance available on the market with hot water (DHW) production of up to 50°C even at very cold outside operating temperatures of down to -25°C.

All this is made possible because of a series of state-of-the-art design and construction solutions. In particular, the sophisticated electronic management system regulates compressor power and electricity consumption from 15% to 100% according to need, carries out self-diagnostics and external climate control processes to ensure optimum performance at all times.

The unit can be **combined** with **traditional systems** or **radiant panels**, and guarantees **high energy efficiency**.

Inverter technology guarantees control over the heating capacity supplied by the unit by modifying the frequency or intensity of the supply current. This means that the rotation speed or the power of the compressor can be varied without any steps. This makes it possible to quickly and accurately adapt cooling or heating capacity to the actual operating conditions required without further increasing electrical consumption.

The Twin Rotary DC Inverter compressor is a DC type compressor which minimises losses due to leakage currents, typical of AC motors. In this way, the overall performance of the system is further improved and the control made more precise.

Simplified, functional **control**

Acquainverter® Smart includes a **touch control panel** that is practical and intuitive and not only allows simple management of the main switching on and off activities, but also continuously communicates the temperature of the water, storing all the information necessary for control and management.

Among other functions, the control panel allows priority setting between Cooling and Domestic Hot Water (DHW) or between Heating and Domestic Hot Water (DHW). Activate and deactivate silent mode (unit noise reduction), set the parameters for the working setpoints according to the variations in the outside air temperature. A weekly timer allows the unit to be programmed, automatically switched on and/or off for one week or set to programmed changes in the system's water set delivery.

Every aspect is easily accessible using a **smartphone**. Using the EWPE Smart application, **system control** can be managed directly using your mobile phone.

EWPE Smart App
Available on:



Features



Heating and Cooling

Heat pump for heating, cooling of rooms (max. water temperature 60°).



Condensation Control

Automatic function that measures the condensation temperature and, based on this, switches the fan(s) off or on to ensure optimal levels of efficiency.



Domestic hot water

Heat pump for domestic hot water production (max. water temperature 50°)



Anti-Legionella

Activation of the anti-legionella cycle for weekly heating of the entire DHW tank to thermal shock temperature.



Defrosting

Automatic cycle reversal and base heating cable to prevent ice formation during winter operation.



Climate control

Intelligent self-regulation of the heating/air conditioning setpoint temperature according to the outside temperature.



Corrosion protection

Heat exchanger coils with corrosion protection: coil fins made of aluminium manganese (Al-Mn), coated with epoxy resin and a hydrophilic layer.



Wi-Fi function

Controlling the Acquainverter® SMART using a smart-phone is simple and intuitive. Using the EWPE Smart application, system control can be managed directly using your mobile phone.



Brushless DC fans

Brushless DC axial fans designed for aerodynamic optimisation, allowing reduced noise levels, increased efficiency and airflow.



Remote digital panel

Allows simple management of the main control activities, continuously communicates temperature states of the water while storing all the information needed to control and manage optimum levels of climatic comfort.



Auto-restart

Restart in the event of power cut.



Economiser

Fridge circuit with Economiser for optimum performance.



Self-Diagnostics

Automatic troubleshooting for easy maintenance.



Emergency operation

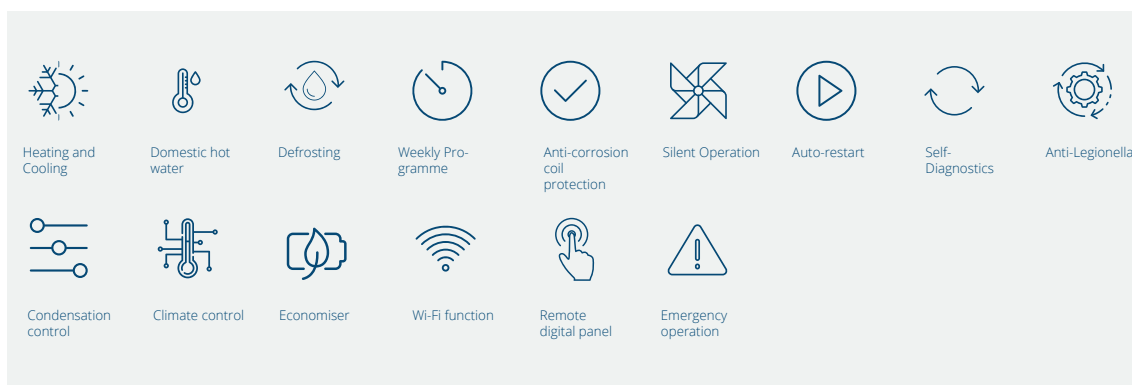
Activation of replacement heat source: allows emergency operation to be set in heating or domestic hot water mode.



Weekly Programme

Set up all the functions of the Acquainverter SMART, programming it according to your needs.

EWM Single-Phase Outdoor Monoblock



Control panel



Single-phase Acquainverter SMART EWM

MODEL	I.U.	EWM08	EWM10	EWM12
Power supply	V/Ph/Hz	230/1/50	230/1/50	230/1/50
Application with air terminal units or radiators*¹				
Heating capacity (with fan coil/radiator)	kW	7.50	10.00	12.00
Cooling capacity (with fan coil)	kW	5.00	7.80	9.50
Heating power consumption (with fan coil/radiator)	kW	2.00	2.70	3.48
Cooling power consumption (with fan coil)	kW	1.61	2.48	3.20
COP	W/W	3.75	3.70	3.45
EER	W/W	3.11	3.15	2.97
Application with underfloor radiant panels ²				
Heating capacity (with underfloor heating)	kW	7.50	10.00	12.00
Cooling capacity (with underfloor cooling)	kW	6.80	8.80	11.00
Power consumption with underfloor heating	kW	1.63	2.17	2.64
Power consumption with underfloor cooling	kW	1.55	1.96	2.56
COP	W/W	4.60	4.61	4.55
EER	W/W	4.39	4.49	4.30
Seasonal energy efficiency class room heating (average climatic conditions)		A++	A++	A++
Nominal input current (max)	A	8.70 (10.40)	12 (23)	15.5 (25)
Sound pressure (cooling function)	dB(A)	53	56	56
Sound pressure (heating function)	dB(A)	51	54	54
Refrigerant	Type/Qty.	R32 / 0.87	R32 / 2.20	R32 / 2.20
Global Warming Potential / CO2 equivalent	GWP / Tons	675 / 0.587	675 / 1.485	675 / 1.485
Dimensions (WxHxD)	mm	1150x758x345	1200x878x460	1200x878x460
Unladen weight	kg	96	151	151
Operating weight	kg	108	163	163
CODE	I.U.	00012EW10	00012EW20	00012EW30

Nominal efficiency under the following conditions, in accordance with UNI EN 14511: 2013/2018

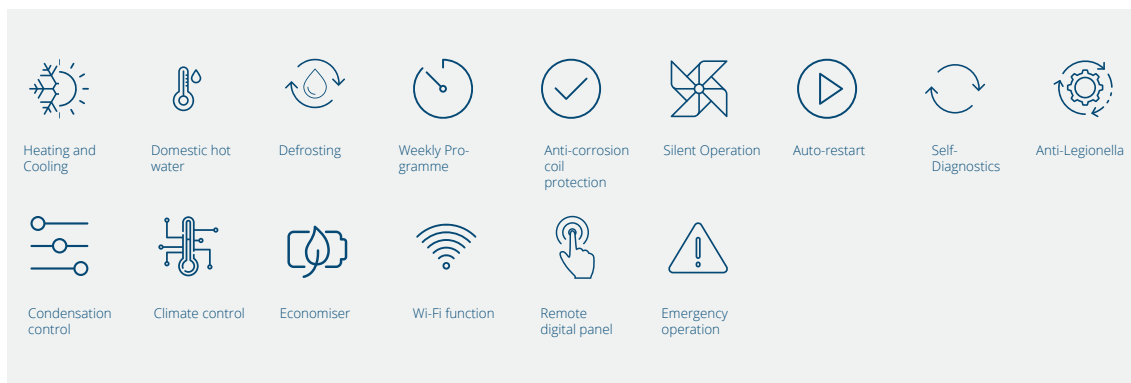
1) Cooling: user-side water temp. 12°C/7°C, outdoor temp. 35°C DB/ 24°C WB / Heating: user water temp. 40°C/45°C, outdoor temp. 7°C DB/ 6°C WB

2) Cooling: user-side water temp. 23°C/18°C, outdoor temp. 35°C DB/ 24°C WB / Heating: user water temp. 30°C/35°C, outdoor temp. 7°C DB/ 6°C WB

*radiators can only be connected in heating mode and must be appropriately sized.

THE ABOVE HERMETICALLY SEALED PRODUCTS CONTAIN FLUORINATED GREENHOUSE GASES GOVERNED BY THE KYOTO PROTOCOL.

EWM Three-Phase Outdoor Monoblock



Control panel



Three-phase Aquinverter SMART EWM

MODEL	I.U.	EWM12T	EWM14T	EWM16T
Power supply	V/Ph/Hz	400/3/50	400/3/50	400/3/50
Application with air terminal units or radiators* 1				
Heating capacity (with fan coil/radiator)	kW	12.00	14.00	15.50
Cooling capacity (with fan coil)	kW	9.50	12.00	13.00
Heating power consumption (with fan coil/radiator)	kW	3.48	4.18	4.70
Cooling power consumption (with fan coil)	kW	3.11	4.38	4.91
COP	W/W	3.45	3.35	3.30
EER	W/W	3.05	2.74	2.65
Application with underfloor radiant panels 2				
Heating capacity (with underfloor heating)	kW	12.00	14.00	15.50
Cooling capacity (with underfloor cooling)	kW	11.00	12.50	14.50
Power consumption with underfloor heating	kW	2.64	3.22	3.60
Power consumption with underfloor cooling	kW	2.56	3.05	3.82
COP	W/W	4.55	4.35	4.31
EER	W/W	4.30	4.10	3.80
Seasonal energy efficiency class room heating (average climatic conditions)		A++	A++	A++
Nominal input current (max)	A	5 (12)	6 (12)	7 (12)
Sound pressure (cooling function)	dB(A)	56	57	59
Sound pressure (heating function)	dB(A)	54	55	57
Refrigerant	Type/Qty.	R32 / 2.20	R32 / 2.20	R32 / 2.20
Global Warming Potential / CO2 equivalent	GWP / Tons	675 / 1.485	675 / 1.485	675 / 1.485
Dimensions (WxHxD)	mm	1200x878x460	1200x878x460	1200x878x460
Unladen weight	kg	151	151	151
Operating weight	kg	163	163	163
CODE	I.U.	00012EW40	00012EW50	00012EW60

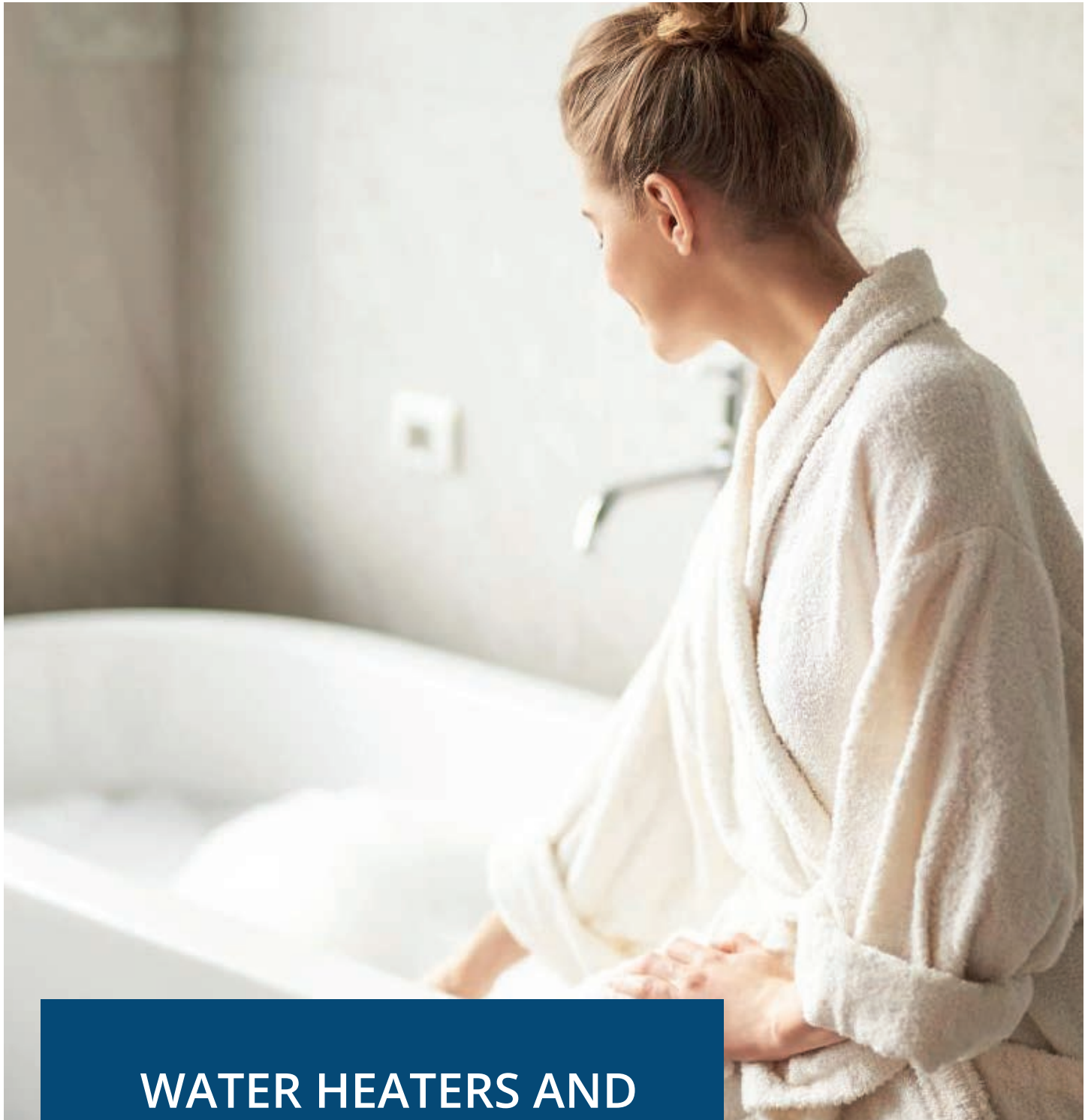
Nominal efficiency under the following conditions, in accordance with UNI EN 14511: 2013/2018

1) Cooling: user-side water temp. 12°C/7°C, outdoor temp. 35°C DB/ 24°C WB / Heating: user water temp. 40°C/45°C, outdoor temp. 7°C DB/ 6°C WB

2) Cooling: user-side water temp. 23°C/18°C, outdoor temp. 35°C DB/ 24°C WB / Heating: user water temp. 30°C/35°C, outdoor temp. 7°C DB/ 6°C WB

*radiators can only be connected in heating mode and must be appropriately sized.

THE ABOVE HERMETICALLY SEALED PRODUCTS CONTAIN FLUORINATED GREENHOUSE GASES GOVERNED BY THE KYOTO PROTOCOL.



WATER HEATERS AND ACCESSORIES

ECA Technology water heaters can be integrated into all types of systems and provide **rapid storage with plentiful, continuous delivery.**

The water heaters allow high efficiency at low operating costs and a long life with no corrosion. Installation is simple and hygiene guaranteed.



WBX

STAINLESS STEEL DHW HEAT STORAGE



WACN - WACN_S - WACN_PU

PUFFER FOR HEATING AND CHILLED WATER



BMAX

DHW WATER HEATER FROM HEAT PUMP



BSM

DHW WATER HEATER FROM HEAT PUMP AND SOLAR PANELS



YBSM

DHW WATER HEATER FROM HEAT PUMP AND INVERTED BOILER



BDA - BDAS

DUAL STORAGE WATER HEATER



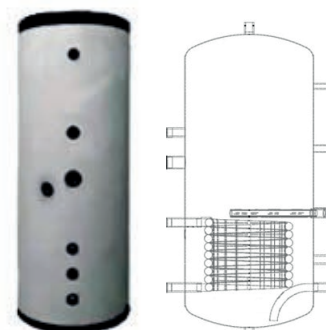
BSE

DHW WATER HEATER WITH REMOVABLE COILS

WBX Stainless steel DHW heat storage

Vertical water heaters made of AISI 316L stainless steel designed for domestic hot water storage and integration with an additional energy source (solar) by means of a fixed coil; 300L to 1000L capacity. Thick foam insulation in semi-shell construction and PVC outer finish.

Designed and manufactured for use in conjunction with Acquainverter WA and WM models;



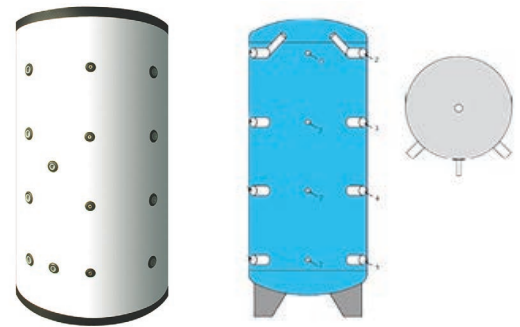
MODEL		WBX300	WBX500	WBX800	WBX1000
Useful volume	V/Ph/Hz	280	480	783	960
Energy class/dissipation	kW	B 59W	C 108W	C 118W	C 135W
Tank material	kW	AISI316L	AISI316L	AISI316L	AISI316L
Insulating material		PUR 40kg/m3	PUR 40kg/m3	EPS 17kg/m3	EPS 17kg/m3
Insulation thickness	kW	75	50	100	100
OPERATING PRESSURE					
Lower coil	bar	10	10	10	10
Domestic	bar	6	6	6	6
MAXIMUM TEMPERATURES					
Upper and lower coil	°C	110	110	110	110
Domestic	°C	99	99	99	99
DIMENSIONS AND WEIGHTS					
Diameter with thermal insulation	Ø mm	700	750	950	1000
Diameter with no thermal insulation	Ø mm	550	600	750	800
Total height	mm	1440	1720	2080	2105
Unladen weight	kg	55	75	132	164
LOWER COIL					
Coil surface area	m2	1.50	1.50	2.70	4.30
Coil water content	l	7.20	7.20	14.40	21.50
CODE		00014WBX02	00014WBX03	00014WBX04	00014WBX05

SOLAR WATER HEATING KIT	CODE	Kit ESPS260x2 WBX300 Water Heater	Kit ESPS210x3 WBX500 Water Heater	Kit ESPS260x3 WBX800 Water Heater	Kit ESPS260x5 WBX1000 Water Heater
Selective collector ESPS260 steel frame	1901101	2	-	3	5
Selective collector ESPS210 steel frame	1901100	-	3	-	-
High-efficiency hydraulic assembly complete with HE pump, deaerator, valve	1902303HE	1	1	1	1
Expansion tank 18L	1902302	1	1	2	2
Expansion tank connection pipe	1902601	1	1	1	1
Expansion tank support base	1902602	1	1	2	2
Glycol Tank 10L	1901502	1	1	1	2
Glycol Tank 1L	1901501	-	-	-	-
Support for 2 collectors	1902501	1	-	-	1
Support for 3 collectors	1902502	-	1	1	1
Hydraulic connection accessories for 1/2 collectors	1902401	1	-	-	1
Hydraulic connection accessories for 3 collectors	1902402	-	1	1	1

WACN

300 L to 2000 L puffer

Treated interior, painted exterior.
made of carbon steel and lined with soft polyurethane insulation, thickness 100mm and PVC exterior finish.

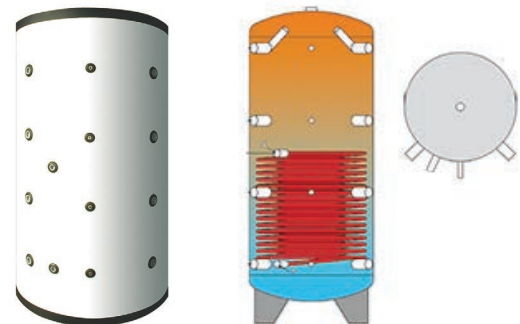


MODEL		WACN300	WACN500	WACN800	WACN1000	WACN1250	WACN1500	WACN2000
Useful volume	L	270	476	710	920	1095	1410	2010
Energy class/dissipation	w	C 93W	C 110W	C 131W	C 143W	C 153W	C 167W	C 190W
Total height with insulation	mm	1635	1775	1800	2190	2095	2165	2480
Max. height straightening	mm	1630	1750	1840	2200	2100	2110	2530
Outer diameter	mm	700	850	990	990	1100	1200	1300
Flange	Ø mm	290/200						
Unladen weight	kg	85	120	148	169	197	222	327
Max. op. press. heating	bar	3						
Max. op. press. exchanger	bar	10						
Max. operating temperature	°C	95						
CODE		00014WA04	00014WA05	00014WA06	00014WA07	00014WA08	00014WA09	00014WA10

WACN_S

Puffer with single fixed coil from 300 L to 1500 L

Treated interior, painted exterior.
made of carbon steel and lined with soft polyurethane insulation, thickness 100mm and PVC exterior finish.

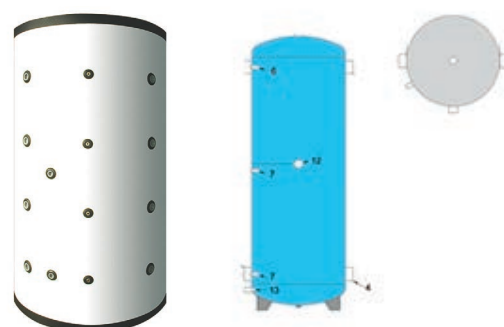


MODEL		WACN300S	WACN500S	WACN800S	WACN1000S	WACN1250S	WACN1500S
Useful volume	L	270	476	710	920	1095	1410
Energy class/dissipation	w	C 93W	C 110W	C 131W	C 143W	C 153W	C 167W
Total height with insulation	mm	1635	1775	1800	2190	2095	2165
Max. height straightening	mm	1630	1750	1840	2200	2100	2110
Outer diameter	mm	700	850	990	990	1100	1200
Lower exchanger	m2	1.8	1.8	2.6	2.6	3.8	3.8
Lower coil water cap.	L	10.4	10.4	14.6	14.6	21.6	21.6
Power consumption	kW	43	45	65	68	95	99
Req. flow rate to coil	m3/h	1.9	1.9	2.8	2.9	4.1	4.2
Water prod. 80°/60°(DIN4708)	m3/h	1.1	1.1	1.6	1.7	2.3	2.4
Pressure drops	mbar	67	73	208	228	645	700
Flange	Ø mm	290/200					
Unladen weight	kg	104	140	176	196	243	266
Max. op. press. of heat.	bar	3					
Max. op. press. exchanger	bar	10					
Max. op. temp.	°C	95					
CODE		00014WA04S	00014WA05S	00014WA06S	00014WA07S	00014WA08S	00014WA09S

WACN_PU

Puffer for chilled water and heating from 50 L to 500 L

Treated interior, painted exterior.
made of carbon steel and lined with stiff, injected insulation, thickness 50mm and PVC exterior finish.

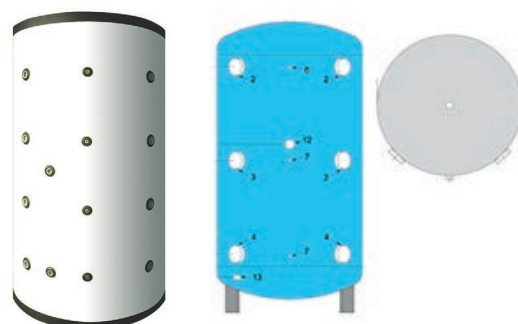


MODEL		WACN 50PU	WACN 100PU	WACN 200PU	WACN300PU	WACN500PU
Useful volume	L	57	123	203	277	473
Energy class/dissipation		B 34W	B 50W	C 68W	C 82W	C 114W
Total height with insulation	ZZmm	935	1095	1395	1560	1855
Maximum height in straightening	mm	1050	1250	1550	1700	2000
Outer diameter 50 mm PU stiff inj.	XX Ø mm	400	500	550	600	700
Unladen weight	kg	25	35	45	55	100
Max. op. press. of heat.	bar	6				
Max. water heater operating temp.	°C	95				
CODE		00014WA01P	00014WA02P	00014WA03P	00014WA04P	00014WA05P

WACN_PU

Puffer for chilled water and heating from 800 L to 2000 L

Treated interior, painted exterior.
made of carbon steel and coated with armaflex insulation thick. 30mm and PVC exterior finish.

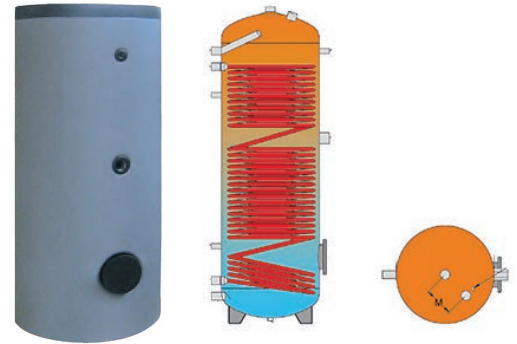


MODEL		WACN 800PU	WACN 1000PU	WACN 1500PU	WACN 2000PU
Useful volume	L	732	855	1420	2013
Energy class/dissipation		471 W	528 W	726 W	913 W
Total height with insulation	ZZmm	1725	1975	2090	2405
Maximum height in straightening	mm	1840	2200	2110	2530
Outer diameter 30 mm PEXL	XX Ø mm	850	850	1060	1160
Unladen weight	kg	170	190	240	330
Max. op. press. of heat.	bar	6			
Max. water heater operating temp.	°C	95			
CODE		00014WA06P	00014WA07P	00014WA09P	00014WA10P

BMAX

DHW water heater from heat pump from 200 to 500 L

Single-coil carbon steel water heater with anode protection and internal vitrification treatment according to DIN 4753-3 and UNI 10025.
Insulation in stiff polyurethane thickness 50mm and external PVC finish.



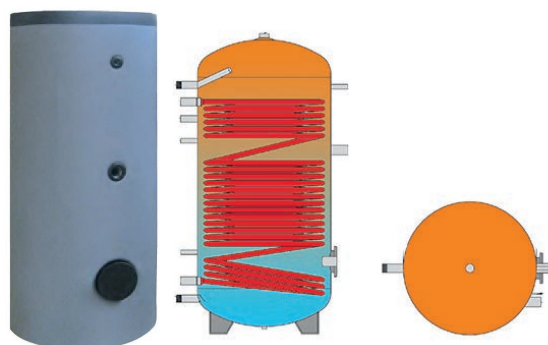
MODEL		BMAX200	BMAX300	BMAX400	BMAX500
Useful volume	L	190	263	374	470
Energy class/dissipation		C 67W	C 85W	C 105W	C 112W
Total height with insulation	mm	1215	1615	1475	1705
Max. height straightening	mm	1375	1735	1700	1900
Outer diameter Water Heater ins. 50mm PU stiff inj.	Ø mm	600	600	750	750
Outer diameter Water Heater ins. 70mm PU stiff inj.	Ø mm	640	640	790	790
Exchanger	m ²	3.0	4.0	5.0	6.0
Water capacity of coil	l	17.2	23.0	42.5	51.5
Heating water 60°C/50°C	m ³ /h	1.2	1.6	2.2	2.7
Power output 60°C/50°C	kW	14	19	26	31
DHW production 10°C/45°C	m ³ /h	0.3	0.5	0.6	0.8
Pressure drops 60°C/50°C	mbar	8	15	19	31
Heating water 80°C/60°C	m ³ /h	3.1	4.1	5.6	6.7
Power output 80°C/60°C	kW	72	96	130	156
DHW prod. 10°C/45°C DIN 4708	m ³ /h	1.8	2.4	3.2	3.8
Pressure drops 80°C/60°C	mbar	55	112	116	197
DIN 4708 coefficient	NL	10	13	18	28
Flange	Ø mm	180/120			
Unladen weight	kg	90	124	160	175
Domestic max. op. press.	bar	10			
Max. op. press. exchanger	bar	10			
Max. operating temperature	°C	95			
CODE		00014BMAX02	00014BMAX03	00014BMAX04	00014BMAX05

BMAX

DHW water heater from heat pump from 800 L to 2000 L

Single-coil carbon steel water heater with anode protection and internal vitrification treatment according to DIN 4753-3 and UNI 10025.

100mm polyester fibre insulation and PVC exterior finish.

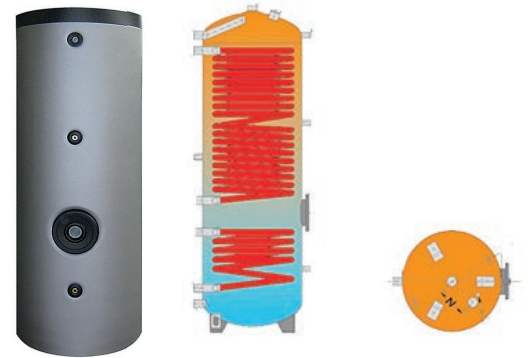


MODEL		BMAX800	BMAX1000	BMAX1500	BMAX2000
Useful volume	L	702	900	1300	1900
Energy class/dissipation		C 130W	C 142W	C 162W	C 186W
Total height with insulation	mm	1875	2205	2085	2470
Max. height straightening	mm	1900	2200	2180	2580
Water heater ins. 50mm PU stiff inj.	Ø mm	990	990	1200	1300
Exchanger	m2	7.0	8.0	8.0	13.0
Water capacity of coil	l	60.0	68.5	68.5	102.0
Heating water 60°C/50°C	m3/h	3.3	3.7	3.9	5.8
Power output 60°C/50°C	kW	38	43	45	68
DHW production 10°C/45°C	m3/h	0.9	1.1	1.1	1.7
Pressure drops 60°C/50°C	mbar	57	82	95	335
Heating water 80°C/60°C	m3/h	8.1	9.3	9.7	14.6
Power output 80°C/60°C	kW	189	216	225	340
DHW prod. 10°C/45°C DIN 4708	m3/h	4.6	5.3	5.5	8.4
Pressure drops 80°C/60°C	mbar	354	515	620	2020
DIN 4708 coefficient	NL	40	53	55	84
Flange	Ø mm	180/120		290/220	
Unladen weight	kg	235	265	370	573
Domestic max. op. press.	bar	10		8	
Max. op. press. exchanger	bar	10			
Max. operating temperature	°C	95			
CODE		00014BMAX06	00014BMAX07	00014BMAX08	00014BMAX09

BSM

DHW water heater from heat pump and solar panels from 300 L to 500 L

Twin-coil carbon steel water heater with anode protection and internal vitrification treatment according to DIN 4753-3 and UNI 10025. Rigid polyurethane insulation thick. 50mm and PVC exterior finish.

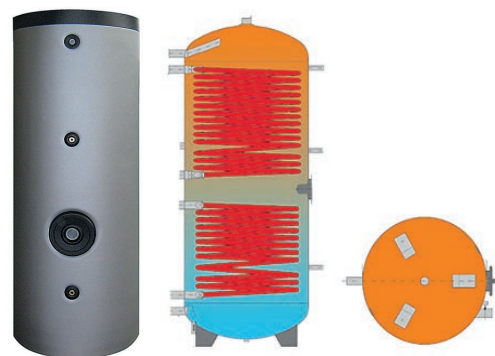


MODEL		BSM300	BSM500
Useful volume	LT	260	455
Energy class/dissipation		C 85W	C 112W
OPERATING PRESSURE			
Upper and lower coil	bar	10	10
Domestic	bar	10	10
MAXIMUM TEMPERATURES			
Upper and lower coil	°C	110	110
Domestic	°C	95	95
DIMENSIONS AND WEIGHTS			
Diameter with thermal insulation	Ø mm	600	740
Diameter with no thermal insulation	Ø mm	500	650
Total height	mm	1615	1705
Unladen weight	kg	131	182
Flange	Ø mm	180/120	
UPPER COIL			
Coil surface area	m²	3.7	5.2
Coil water content	l	18	31
Heating water 60°C/50°C	m³/h	1.59	2.37
Power output	kW	29	44
Domestic prod. 10°C/45°C-DIN 4708	m³/h	0.71	1.08
Pressure drop	mbar	17	21
LOWER COIL			
Coil surface area	m²	1.2	1.8
Coil water content	l	8	10
Heating water 80°C/60°C	m3/h	1.25	1.9
Power output	kW	18.5	27.5
Domestic prod. 10°C/45°C-DIN 4708	m³/h	0.45	0.68
Pressure drop	mbar	31	37
SERIES COILS			
Coil surface area	m²	4.9	7.0
Coil water content	l	26	41
Heating water 60°C/50°C	m³/h	2.32	3.27
Power output	kW	27	38
Domestic prod. 10°C/45°C-DIN 4708	m³/h	0.66	0.93
Pressure drop	mbar	63	67
CODE		00014BSM03	00014BSM05

BSM

DHW water heater from heat pump and solar panels from 800 L to 2000 L

Twin-coil carbon steel water heater with anode protection and internal vitrification treatment according to DIN 4753-3 and UNI 10025.
 Polyester fibre insulation thick. 100mm and PVC exterior finish.

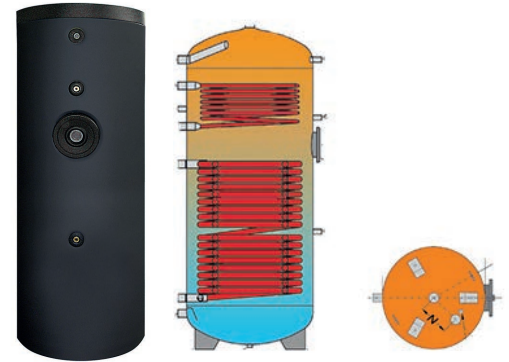


MODEL		BSM800	BSM1000	BSM1500	BSM2000
Useful volume	LT	702	900	1390	1900
Energy class/dissipation		C 130W	C 142W	C 162W	C 186W
OPERATING PRESSURE					
Upper and lower coil	bar	10	10	10	10
Domestic	bar	10	10	8	8
MAXIMUM TEMPERATURES					
Upper and lower coil	°C	110	110	110	110
Domestic	°C	95	95	95	95
DIMENSIONS AND WEIGHTS					
Diameter with thermal insulation	Ø mm	990	990	1200	1300
Diameter with no thermal insulation	Ø mm	790	790	1000	1100
Total height	mm	1875	2205	2185	2470
Unladen weight	kg	265	294	395	601
Flange	Ø mm	180/200		290/220	
UPPER COIL					
Coil surface area	m²	5.2	6.0	6.0	12.0
Coil water content	l	31	35	35	68
Heating water 60°C/50°C	m³/h	2.58	3.01	3.01	6.02
Power output	kW	30	88	88	103
Domestic prod. 10°C/45°C-DIN 4708	m³/h	1.47	2.21	2.21	2.5
Pressure drop	mbar	93	215	215	340
LOWER COIL					
Coil surface area	m²	2.4	3.7	3.7	4.3
Coil water content	l	14	23	23	26
Heating water 80°C/60°C	m3/h	2.6	3.8	3.8	4.4
Power output	kW	30.0	35.0	35.0	70.0
Domestic prod. 10°C/45°C-DIN 4708	m³/h	0.74	0.86	0.86	1.72
Pressure drop	mbar	40	45	45	90
SERIES COILS					
Coil surface area	m²	7.6	9.7	9.7	16.3
Coil water content	l	45	58	58	94
Heating water 60°C/50°C	m³/h	3.53	4.56	4.56	7.70
Power output	kW	41	53	53	89
Domestic prod. 10°C/45°C-DIN 4708	m³/h	1.01	1.30	1.30	7.20
Pressure drop	mbar	150	195	195	330
CODE		00014BSM06	00014BSM07	00014BSM08	00014BSM09

YBSM

DHW water heater from heat pump and boiler inverted from 300 L to 500 L

Twin-coil carbon steel water heater with anode protection and internal vitrification treatment according to DIN 4753-3 and UNI 10025.
Stiff polyurethane insulation and PVC exterior finish.



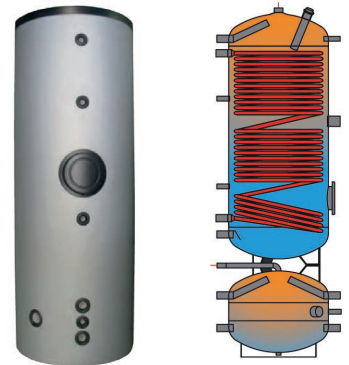
MODEL		YBSM300	YBSM500
Useful volume	L	260	455
Energy class/dissipation		C 85W	C 112W
OPERATING PRESSURE			
Upper and lower coil	bar	10	10
Domestic	bar	10	10
MAXIMUM TEMPERATURES			
Upper and lower coil	°C	110	110
Domestic	°C	95	95
DIMENSIONS AND WEIGHTS			
Diameter with thermal insulation	Ø mm	600/640	750/790
Diameter with no thermal insulation	mm	500	650
Total height	mm	1615	1705
Unladen weight	kg	128	176
Flange	Ø mm	180/120	
UPPER COIL			
Coil surface area	m²	0.7	1
Coil water content	l	3.5	5.9
Heating water 80°C/60°C	m3/h	0.73	1.03
Power output	kW	17	24
Domestic prod. 10°C/45°C-DIN 4708	m3/h	0.42	0.60
Pressure drop	mbar	15	19
LOWER COIL			
Coil surface area	m²	3.7	5.2
Coil water content	l	18	31
Heating water 60°C/50°C	m3/h	1.59	2.37
Power output	kW	18.5	27.5
Domestic prod. 10°C/45°C-DIN 4708	m3/h	0.45	0.68
Pressure drop	mbar	31	37
SERIES COILS			
Coil surface area	m²	4.9	7.0
Coil water content	l	26	41
Heating water 60°C/50°C	m3/h	2.32	3.27
Power output	kW	27	38
Dom. prod.10°C/45°C-DIN 4708	m3/h	0.66	0.93
Pressure drop	mbar	63	67
CODE		00014YBSM03	00014YBSM05

BDA

Dual storage water heater single coil 300L and 500L; Puffer 80L in lower part

Combined, dual storage water heater with single coil in carbon steel with anode protection and internal vitrification treatment according to DIN 4753-3 and UNI 10025.

Rigid polyurethane insulation thick. 70mm and PVC exterior finish.



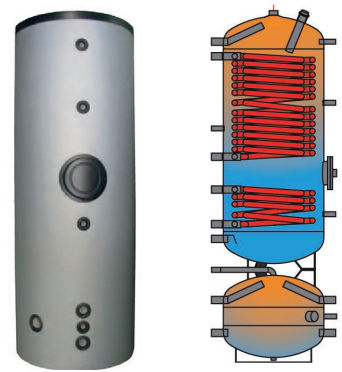
MODEL		BDA300	BDA500
Water heater ins. 70mm PU stiff inj.	Ø mm	690	790
Energy class/dissipation		B 73W	B 84W
Total height	mm	1925	2040
Unladen weight	kg	150	200
BIVALENT WATER HEATER			
Actual capacity	l	270	450
FITTINGS			
Coil delivery and return	R	1"	1"
Cold water	R	1"	1"
Recirculation	R	1/2"	1/2"
Electrical element	R	1" 1/2	1" 1/2
OPERATING PRESSURE			
Coil	bar	10	10
Domestic	bar	10	10
MAXIMUM TEMPERATURES			
Upper and lower coil	°C	110	110
Domestic	°C	95	95
UPPER COIL			
Coil surface area	m ²	3.3	6
Coil water cap.	l	20.2	51.5
Heating water (60/50°C)	m ³ /h	1.3	2.7
Power output	kW	15	31
Domestic prod. (10/45°C) DIN 4708	m ³ /h	0.37	0.76
Pressure drop	mbar	11	31
PUFFER FOR HEAT PUMP			
Actual capacity		80	80
FITTINGS			
Delivery and return	R	1"	1"
Electrical element	R	1" 1/2	1" 1/2
OPERATING PRESSURE			
Puffer	bar	6	6
MAXIMUM TEMPERATURES			
Domestic	°C	95	95
CODE		00014BDA03	00014BDA05

BDAS

Dual storage tank twin coil 300L and 500L; Puffer 80L in lower part

Combined, dual storage tank with twin coil in carbon steel with anode protection and internal vitrification treatment according to DIN 4753-3 and UNI 10025.

Rigid polyurethane insulation thick. 70mm and PVC exterior finish.

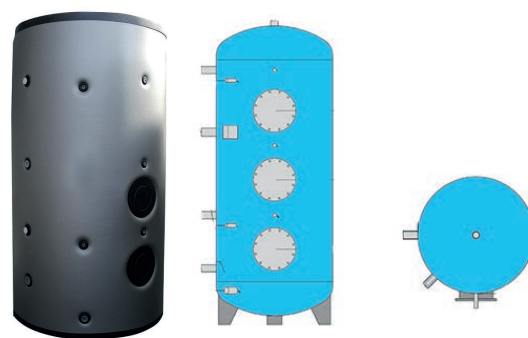


MODEL		BDA300S	BDA500S
Water heater ins. 70mm PU stiff inj.	Ø mm	690	790
Energy class/dissipation		B 73W	B 84W
Total height	mm	1925	2040
Unladen weight	kg	170	220
BIVALENT WATER HEATER			
Actual capacity	l	270	460
FITTINGS			
Coil delivery and return	R	1"	1" 1/4
Cold water	R	1"	1"
Recirculation	R	1/2"	1/2"
Electrical element	R	1" 1/2	1" 1/2
OPERATING PRESSURE			
Coil	bar	10	10
Domestic	bar	10	10
MAXIMUM TEMPERATURES			
Upper and lower coil	°C	110	110
Domestic	°C	95	95
UPPER COIL			
Coil surface area	m ²	2.8	4.4
Coil water cap.	l	17	26.6
Heating water (60/50°C)	m ³ /h	1.2	2
Power output	kW	14	23
Domestic prod. (10/45°C) DIN 4708	m ³ /h	0.34	0.57
Pressure drop	mbar	13	22
LOWER COIL			
Coil surface area	m ²	0.9	1.5
Coil water content	l	5.3	9.4
Heating water (80/60°C)	m ³ /h	0.9	1.6
Power output	kW	22	37
Dom. prod. (10°C/45°C) DIN 4708	m ³ /h	0.54	0.91
Pressure drop	mbar	7	13
PUFFER FOR HEAT PUMP			
Actual capacity	l	80	80
FITTINGS			
Delivery and return	R	1"	1"
Electrical element	R	1" 1/2	1" 1/2
OPERATING PRESSURE			
Puffer	bar	6	6
MAXIMUM TEMPERATURES			
Domestic	°C	95	95
CODE		00014BDA03S	00014BDA05S

BSE

200 L to 2000 L DHW water heater removable coil

Combined carbon steel water heater with 1 or 3 inspection flanges for inspection \varnothing 290/220 mm with anode protection and internal vitrification treatment according to DIN 4753-3 and UNI 10025. Polyester fibre insulation thick. 100mm and PVC exterior finish. Ready for installation of removable coils (optional).



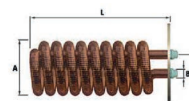
MODEL		BSE200S1	BSE300S1	BSE500S1	BSE800S1	BSE1000S1	BSE1500S1	BSE2000S1
Useful volume	L	208	285	749	749	955	1450	1990
Energy class/dissipation		C 77W	C 95W	C 130W	C 130W	C 142W	C 162W	C 186W
Tot. ht. with ins.	mm	1275	1675	1875	1875	2205	2185	2470
Max. height straightening	mm	1275	1660	1920	1920	2200	2200	2520
Water heater polyester fibre ins. 100mm	\varnothing mm	700	700	990	990	990	1200	1300
Flange	\varnothing mm	290/220						
Unladen weight	kg	70	91	135	190	207	321	405
Maximum pressure	bar	10						8
Max. water heat. op. temp.	$^{\circ}$ C	95						
CODE		00014BSE01	00014BSE03	00014BSE05	00014BSE07	00014BSE10	00014BSE13	00014BSE16

MODEL		BSE800S3	BSE1000S3	BSE1500S3	BSE2000S3
Useful volume	L	749	955	1450	1990
Energy class/dissipation		C 130W	C 142W	C 162W	C 186W
Tot. ht. with ins.	mm	1875	2205	2185	2470
Max. height straightening	mm	1920	2200	2200	2520
Water heater polyester fibre ins. 100mm	\varnothing mm	990	990	1200	1300
Flange	\varnothing mm	290/220			
Unladen weight	kg	190	207	321	405
Maximum pressure	bar	10			8
Max. water heat. op. temp.	$^{\circ}$ C	95			
CODE		00014BSE09	00014BSE12	00014BSE15	00014BSE18

SE removable coil

Removable coil KIT for BSE finned copper water heater with perforated flange, copper coil, flange cover and nuts and bolts.

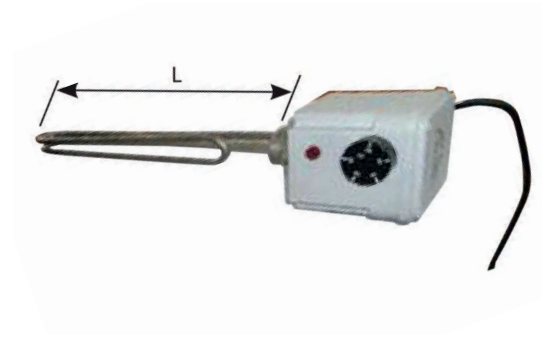
N.B. The length of the coil must be at least 10 cm shorter than the diameter of the heater.



MODEL		SE121	SE180	SE263	SE320	SE454	SE634
Exchanger surface area	m2	1.21	1.80	2.36	3.20	4.54	6.43
Exchanger water cap.	l	0.7	1.4	2.0	2.5	3.5	5.0
Power consumption	kW	24	36	53	64	91	127
Req. flow rate to coil	m3/h	1.0	1.6	2.3	2.8	3.9	5.5
Domestic water prod, 80°/60° C (DIN 4708)	m3/h	0.6	0.9	1.3	1.6	2.2	3.1
Pressure drops	mbar	387	245	748	1303	745	1930
Coefficient (DIN 4708)	NL	3	5	13	16	30	42
kW		36	43	62	75	108	150
A		DN 200					
B		3/4"				1"	
C mm		80					
L mm		420	470	580	660	750	980
kg		11.0	13.4	16.4	18.4	23.4	30.0
CODE		00014SER01	00014SER02	00014SER03	00014SER04	00014SER05	00014SER06

STAINLESS STEEL Electrical element

Stainless steel immersion element, IP 65, with external thermostat and temperature limiter.



MODEL		REM1	REM2	REM3
W		1500	2000	3000
V		230		
kg		1.5		
L mm		320		
Fitt.		1"1/2		
CODE		00014REM1	00014REM2	00014REM3

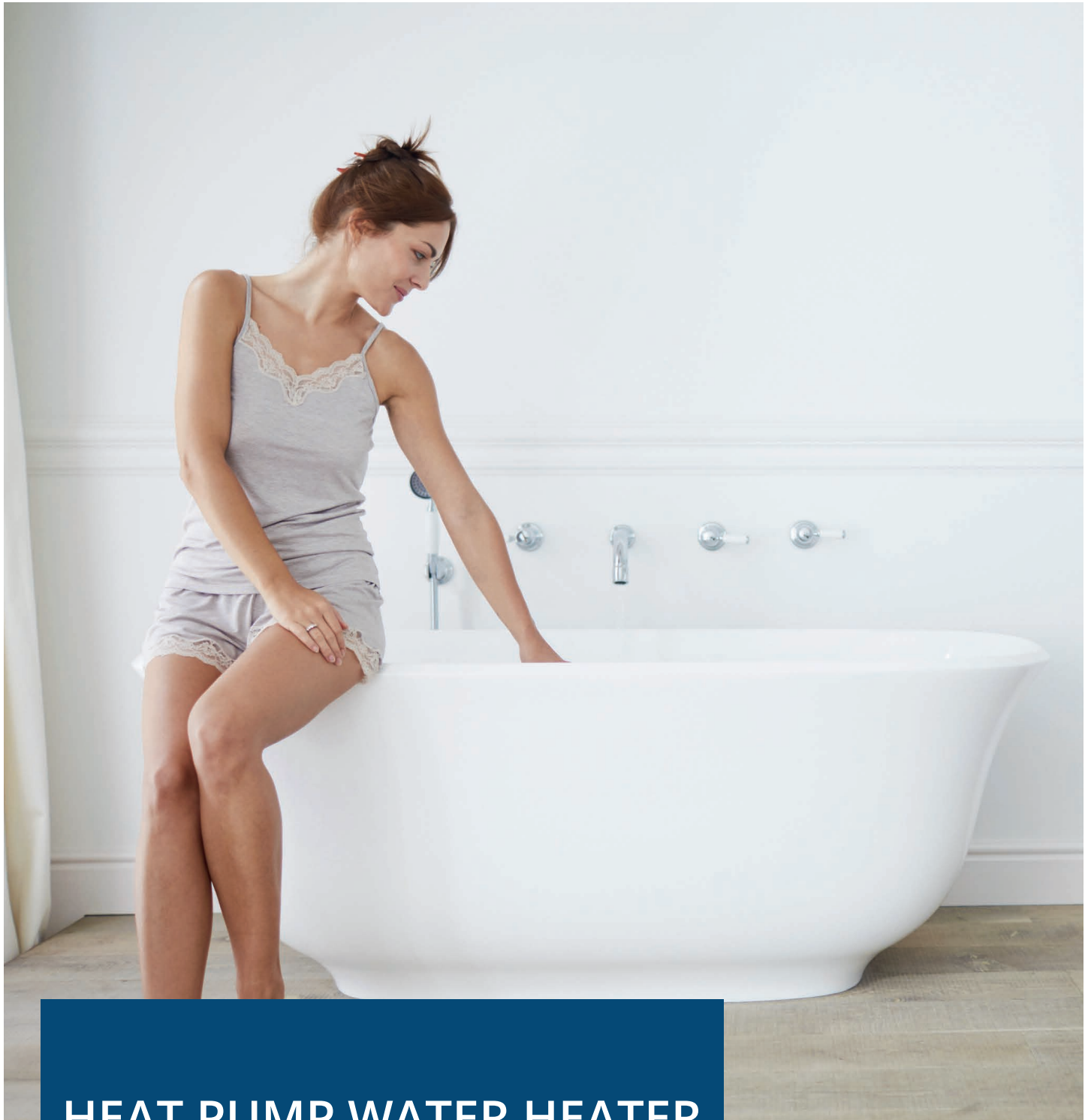
MODEL		RET3	RET4	RET6	RET7	RET9
W		3000	4500	6000	7500	9000
V		400				
kg		2.0	2.5	3.0	3.5	3.5
L mm		300	450	600	700	
Fitt.		1"1/2				
CODE		00014RET3	00014RET4	00014RET6	00014RET7	00014RET9

COPPER Electrical element

Copper immersion element, IP 65, with internal adjustable thermostat and temperature limiter.



MODEL		REL1	REL2	REL3
W		1500	2000	3000
V		230		
kg		1.0	1.5	
L mm		340	390	
Fitt.		1"1/2		
CODE		00014REL1	00014REL2	00014REL3



HEAT PUMP WATER HEATER



Water heater in heat pump systems allow domestic water to be heated using heat pump technology, which heats water in a closed circuit using heat from the air: an **innovative technology** that is also **environmentally sustainable** and allows considerable energy savings.

Owing to the use of heat pump technology, the heat pump water heater makes it possible to heat domestic water easily and cost-effectively, reducing energy consumption by up to 70% compared to an electric water heater and by up to 30% compared to a natural gas boiler.

It also does not emit CO₂ into the environment and ensures the highest degrees of safety by not using gas or methane.



EW100PG Water Heater

WALL-MOUNTED DHW WATER HEATER IN HEAT PUMP



EW300GR Water Heater

FLOOR-STANDING DHW WATER HEATER IN HEAT PUMP

EW100PG Wall-mounted monoblock water heater

Heat pump water heaters heat water in the home using heat pump technology, which heats water in a closed circuit thanks to the heat in the air: an innovative and environmentally sustainable technology that allows considerable energy savings.

ECA Technology **Wall-mounted water heater in heat pump** systems with **ecological gas R134A** produce domestic hot water using a tank with a capacity of **100 litres in vitrified steel**.

The compact size of the wall-mounted water heater in heat pump enables domestic water to be heated using innovative, eco-sustainable technology, allows the heating of domestic water, making it an ideal replacement for traditional water heaters.

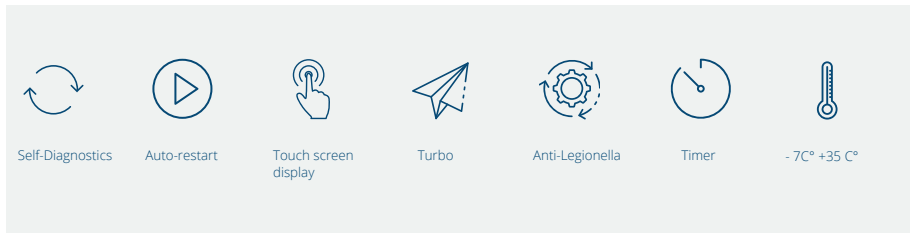
The user-friendly electronic control unit with LCD touch display allows complete customisation of the various modes including: Adjustment and display of temperature and quantity of water available, timer programming, rapid heating, "Absence / Holiday" setting when away from home for several days.

I Plus

- Wall-mounted with ducted air;
- Rotary compressor,
- Heating elements for indirect heating by air,
- Enamel to 850°C,
- Magnesium anode for water heater anti-corrosion protection.



EW100PG Wall-mounted monoblock water heater



MODEL		EW100PG
Declared load profile / Energy efficiency class ⁽¹⁾		M / A+
Water heating energy efficiency η_{wh} ⁽¹⁾	%	110.7
Annual energy consumption AEC ⁽¹⁾	kWh	464
Daily electrical energy consumption Q _{elec}	kWh	2.225
Thermostat temperature setting	°C	55
Internal sound power LWA / Sound pressure at 1 m	dB(A)	51 / 39.5
Specific precautions (assembly, installation, maintenance)		use of a safety valve is mandatory
Tank volume / Maximum volume of usable hot water (40°C)	l	97.9 / 130
Heating cycle A15 / W10-55 * - Heating cycle A7 / W10-55 **	h:min	05:40 - 06:50
Energy consumption in cycle A15 / W10-55 * / A7 / W10-55 **	kWh	2.05 / 2.35
COPDHW (A15 / W10-55) EN 16147 * - COPDHW (A7 / W10-55) EN 16147 **		3.10 - 2.63
Standby consumption according to EN16147	W	20
Refrigerant	type/qty.	R134a / 0.54 kg
Global Warming Potential / CO2 equivalent	GWP / Tons	1430 / 0.772
Ambient temperature limits at installation site	°C	+2 ~ +35
Intake air temperature operating limits	°C	-7 ~ +35
Air flow rate (min-max)	m³/h	100-230
Pressure drop with 150 m³/h and ventilation speed 60%-80%	Pa	70 (90)
Nominal power consumed by compressor	W	250
Maximum power consumption	W	2350
Electric elements	N° / W	2 x 1000
Power supply	V/Ph/Hz	230/1/50
Electrical protection / Protection class	A	16 / IP24
Max. operating pressure	MPa / bar	0.6 / 6
Maximum heat pump temperature / with electric elements	°C	55 / 75
Dimensions (H x W x D)	mm	1342x506x533
Net weight (empty/with water)	kg	62 / 162
Connection to mains water supply		G 1/2"
Air duct dimensions (max diameter / length)	mm/m	Ø125 (150x70) / 15
CODE		0011501

(1) EU REGULATIONS 812/2013 AND 814/2013 UNDER AVERAGE CLIMATIC CONDITIONS

(*) Water heating to 55°C with an air inlet temperature of 15°C, 74% humidity and a water inlet temperature of 10°C according to EN16147

(**) Water heating to 55°C with an air inlet temperature of 7°C, 89% humidity and water inlet temperature of 10°C according to EN16147

AIR DISTRIBUTION ACCESSORIES	CODE
PVC flat duct (150x70 mm / L=1.5mm)	0011530
PVC pipe (Ø125 mm / L=1.5mm)	0011532
ABS vertical 90° elbow (Ø 125mm to 150mm) round/rectangular	0011534
ABS vertical 90° elbow (150x70 mm) rectangular	0011536
ABS horizontal 90° elbow (150x70 mm) rectangular	0011538
ABS joint (Ø 125 mm to 150x70 mm) round/rectangular	0011540
ABS joint for rectangular ducts (150x70 mm)	0011542
Pair rectangular duct brackets (150x70 mm)	0011544
Pair pipe clamps (Ø 125 mm)	0011545
Wall-mounted through plate (Ø 125 mm 150x70 mm)	0011546
Flexible duct joint 150x70 mm (max. 60 cm)	0011548
ABS grille 180x180 mm with gravity louvres	0011550
ABS grille 180x180 mm with fixed louvres	0011562

WATER HEATER IN HEAT PUMP

EW300GR Floor-standing monoblock water heater

Heat pump water heaters heat water in the home using heat pump technology, which heats water in a closed circuit thanks to the heat in the air: an innovative and environmentally sustainable technology that allows considerable energy savings.

ECA Technology **floor-standing water heater in heat pump systems** using **environmentally friendly R134A gas** produce domestic hot water with **270-litre tank in AISI 304L stainless steel**.

The high performance of the compressor ensures the highest levels of energy efficiency.

The user-friendly electronic control unit with LCD display allows complete customisation of the different operating modes. The water heater also comes with a removable soft touch control panel for settings, programming and diagnostics.

I Plus

- DHW production up to 70 °C with no heating elements;
- Single-phase power supply;
- Integrated 1500 W electric elements on support;
- Magnesium anode for anti-corrosion protection of the tank;
- Condensate drain.



EW300GR Floor-standing monoblock water heater



MODEL		EW300GR
Volume of hot water mixed at 40°C ⁽¹⁾	l	321
Declared load profile ⁽¹⁾		XL
Energy efficiency class of water heating in average climate conditions ⁽³⁾		A
Water heating energy efficiency η_{wh} in average climatic conditions ⁽³⁾	%	105
Annual electricity consumption AEC in average climatic conditions ⁽³⁾	kWh	1594
Nominal heating capacity ⁽²⁾	kW	2.40
Nominal power consumption ⁽²⁾	kW	0.68
Thermostat temperature setting	°C	55
Hot water temperature adjustment range	°C	35 - 70
Sound power level LWA, at home	dB (A)	60
COPDHW (A7 / W10-55) in average climatic conditions ⁽¹⁾		2.61
Nominal COP ⁽²⁾		3.50
Nominal hot water production capacity ⁽²⁾	l/h	51
Power supply	V/Hz/Ph	230 / 50 / 1
Integral electric elements	kW	1.50
Maximum consumption including elements	kW	2.80
Rotary		compressor
Degree of protection / Insulation class		IPX4 / I
Air flow with ducting	m ³ /h	300-400
Maximum operating pressure	bar	8
Refrigerant (type / quantity)	type / kg	R134a / 1.10
Global Warming Potential / CO2 equivalent	GWP / tonsCO2	1430 / 1.573
Dimensions (H x W x D)	mm	1958x660x667
Maximum height in straightening	mm	2025
Net/gross weight/with water	kg	114 / 139 / 386
Hydraulic fittings		G 3/4" - DN20
Duct fitting dimensions	mm	Ø 160
Air duct length	m	5
CODE		0011450

(1) Test according to EN16147; air temperature 7°C DB (6°C WB); water temperature inlet 10° C / outlet 55° C.

(2) Conditions: inlet air 20°C DB (15°C WB), water inlet 15° C / outlet 55° C.

(3) EU Regulation 812/2013 and 814/2013

THE ABOVE HERMETICALLY SEALED PRODUCTS CONTAIN FLUORINATED GREENHOUSE GASES GOVERNED BY THE KYOTO PROTOCOL.

OPTIONAL ACCESSORIES	Code
Aluermoflex PL insulated pipe d.160 mm 10 m	700100P2
Male fitting Ø 160 mm	7001054
Aluminium adhesive tape ALUM 50 m	7001032
Enamelled metal grille white 230x230 mm w/spring	7001163
Steel pipe clamps 10 pcs (Ø60-215mm)	7001035



HYDRONIC UNITS

Research, design and advanced technology have resulted in reliable and efficient water systems that provide comfort and well-being inside buildings.

The range of **water-cooled fan coil units** is designed to be integrated with heat pump systems such as Acquainverter, Acquainverter SMART and ECA Technology heat pumps, optimising the performance they are able to deliver.



XFS and XHW SLIM Fan Coil Units
FLOOR/CEILING and WALL HYDRONIC UNIT



V-Radiant and V-Radiant ECO
HYBRID HYDRONIC UNIT WITH RADIATOR



HWFC High wall fan coil
WALL HYDRONIC UNIT



FSW and FSWE Ducted fan coil units
DUCTED HYDRONIC UNIT



CFC Cassette fan coil
CASSETTE HYDRONIC UNIT



Fan coil units
FLOOR/CEILING RECESSED HYDRONIC UNITS

XFS - Floor/ceiling Slim fan coil unit

XFS is the new low-consumption (4 Watts) DC Inverter hydronic unit from ECA Technology for **cooling, heating, dehumidifying** and **purifying** environments.

Distinguished by the absence of front intake grilles, the innovative ventilation system improves coil performance by working at negative pressures.

The XFS model is suitable for low wall or floor installation. The modern design features a **tempered glass front panel** and **reduced footprint** (12 cm) that guarantees a unique impact, especially for new buildings.

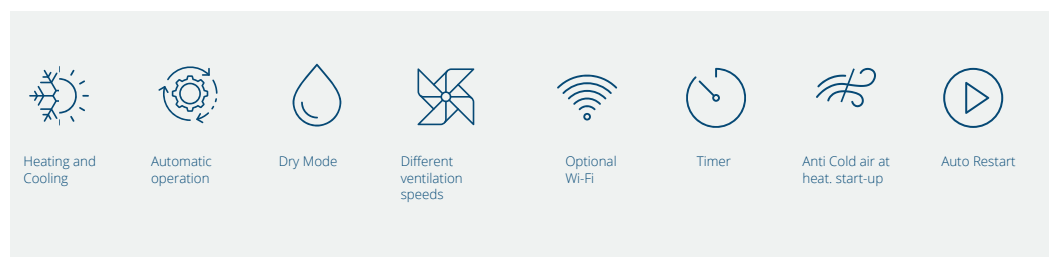
The XFS terminal not only easy to install, but is simple to maintain and manage with its intuitive LCD display. It is also possible to integrate a hydronic unit with a wired touch screen controller and a Wi-Fi device that provides control from a smartphone.

I Plus

- Reduced thickness (12 cm);
- Elegant, contemporary design;
- Optional 2-way and 3-way bypass valves;
- Modulated heat capacities from 0.5 to 4 kW;
- Floor or ceiling installation;
- Extreme silence.



XFS - Floor/ceiling Slim fan coil unit



Floor/ceiling Hydronic XFS



Optional touchscreen control

MODEL		XFS20	XFS40	XFS60	XFS80
Maximum total cooling capacity ¹	kW	0.88	1.81	2.7	3.38
Maximum heat capacity ²	kW	1.10	2.40	3.20	4.23
Air flow rate (min/max)	m³/h	80-180	155-315	240-450	310-540
Electric power (min/max)	W	3-12	4-13	5-14	8-17
Minimum sound pressure (SPL)	dB(A)	20.5	21.6	23.5	21.7
Dimensions (WxDxH)	mm	681x122x553	873x122x553	1065x122x553	1257x122x553
Supply voltage	V-Hz	220-50	220-50	220-50	220-50
DC motor low power inverter				yes	
Tangential aluminium fan				yes	
Pleated stainless steel filter				yes	
Tempered glass front panel				yes	
Powder-coated steel machine frame				yes	
CODE		1501610	1501611	1501612	1501613

(1) Cooling: Room temperature 27° C, 47% RH / Water temperature (in / out) 7/12° C

(2) Heating: Room temperature 20° C / Water temperature (in): 50° C

OPTIONAL ACCESSORIES*	CODE
Touch screen top control with Wi-Fi	1501651
Water temperature probe	1501652
Floor fastening legs	1501653
Condensate drain pump	1501654
2-way valve + 2-pipe system kit (mod.XFS20/40/60)	1501655
2-way valve + 2-pipe system kit (mod.XFS80)	1501656
3-way valve with bypass + 2-pipe system kit (mod. XFS20/40/60)	1501659
3-way valve with bypass + 2-pipe system kit (mod. XFS80)	1501660
3-way valve with bypass + 4-pipe system connection XFS series	1501663
Horizontal condensate tray (mod. XFS20)	1501664
Horizontal condensate tray (mod. XFS40)	1501665
Horizontal condensate tray (mod. XFS60)	1501666
Horizontal condensate tray (mod. XFS80)	1501667
Rear trim panel (mod. XFS20)	1501668
Rear trim panel (mod. XFS40)	1501669
Rear trim panel (mod. XFS60)	1501670
Rear trim panel (mod. XFS80)	1501671
Frontal electric element (mod. XFS20/40)	1501672
Frontal electric element (mod. XFS60/80)	1501673

*Accessories supplied

XHW - Slim Fan Coil Unit wall

XHW is the new low-consumption (4 Watts) DC Inverter hydronic unit from ECA Technology for **cooling, heating, dehumidifying** and **purifying** environments.

Distinguished by the absence of front intake grilles, the innovative ventilation system improves coil performance by working at negative pressures.

The XHW model is suitable for high-wall installation. The modern design features a **tempered glass front panel** and **reduced footprint** (12 cm) that guarantees a unique impact, especially for new buildings.

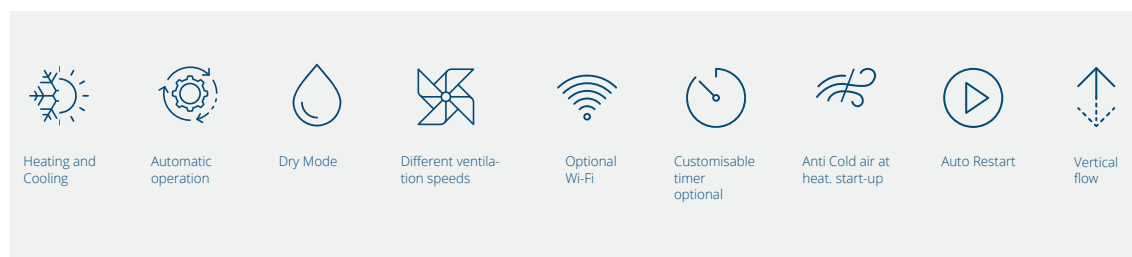
The XHW terminal not only easy to install, but is simple to maintain and manage with its intuitive LCD display. It is also possible to integrate a hydronic unit with a wired touch screen controller and a Wi-Fi device that provides control from a smartphone.

I Plus

- Reduced thickness (12 cm);
- Elegant, contemporary design;
- Tangential aluminium fan for improved efficiency;
- 2- and 3-way by-pass valves (optional);
- Dual motorised flaps for accurate control of air direction;
- Modulated heat capacity from 0.5 to 4 kW;
- Remote control as standard;
- Extreme silence.



XHW - Slim Fan Coil Unit Wall



XHW Hydronic wall



Remote control as standard



Touchscreen command optional

MODEL		XHW40	XHW60	XHW80
Maximum total cooling capacity ¹	kW	1.20	1.70	2.45
Maximum heat capacity ²	kW	1.68	2.45	3.30
Air flow rate (min/max)	m³/h	155/315	240/450	310/540
Electric power (min/max)	W	4/11	5/14	8/17
Minimum sound pressure (SPL)	dB(A)	23.0	23.4	25.0
Dimensions (WxDxH)	mm	873x122x383	1065x122x383	1257x122x383
Supply voltage	V-Hz	220-50	220-50	220-50
DC motor low power inverter			yes	
Tangential aluminium fan			yes	
Remote control			yes	
LCD Display			yes	
Pleated stainless steel filter			yes	
Front panel in tempered crystal glass			yes	
Powder-coated steel machine frame			yes	
CODE		1501601	1501602	1501603

(1) Cooling: Room temperature 27° C, 47% RH / Water temperature (in / out) 7/12° C

(2) Heating: Room temperature 20° C / Water temperature (in): 50° C

OPTIONAL ACCESSORIES*	CODE
Touch screen top control with Wi-Fi	1501651
Water temperature probe	1501652
Condensate drain pump	1501654
2-way valve + 2-pipe system kit (mod. XHW40/60)	1501657
2-way valve + 2-pipe system kit (mod. XHW80)	1501658
3-way valve with bypass + 2-pipe system kit (mod. XHW40/60)	1501661
3-way valve with bypass + 2-pipe system kit (mod. XHW80)	1501662

*Accessories supplied.

V-Radiant Hybrid hydronic unit

V-Radiant is the hybrid fan coil unit and radiator from ECA Technology. A unique air conditioning unit that **combines the functionality of a radiator** and a **fan coil unit** in a single solution for optimum comfort and ease of installation.

V-Radiant works with hot water from 35°C to 70°C in heating mode and from 5°C to 20°C in cooling mode and is the best product use in combination with Acquainverter, a trivalent heat pump that heats, cools and dehumidifies thanks to the V-Radiant unit.



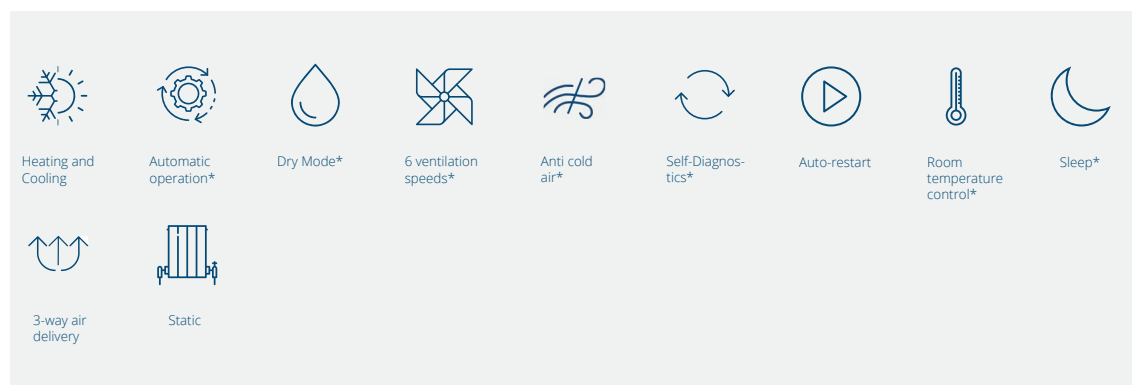
V-Radiant



Central control panel



V-Radiant Hybrid hydronic unit



*only on VR200 model

VR200

version with full optional electronics and on-board control.

VR200ECO

version with no on-board control.



MODEL		VR200	VR200ECO
Total cooling output (7°-12°)	W	2169	2169
Sensible cooling output (7°-12°)	W	1735	1735
Total cooling output (16°-22°)	W	554	554
Sensible cooling output (16°-22°)	W	443	443
Total heating output (50°)	W	2498	2498
Static output in heating (50°)	W	469	469
Total output in heating (70°-60°)	W	4237	4237
Static output in heating (70°-60°)	W	914	914
Total output in heating (75°-65°)	W	4765	4765
Static output in heating (75°-65°)	W	1100	1100
Total output in heating (45°-40°)	W	2023	2023
Static output in heating (45°-40°)	W	275	275
Total output in heating (35°-30°)	W	915	915
Static output in heating (35°-30°)	W	225	225
Minimum air flow volume	m³/h	150	150
Maximum air flow volume	m³/h	400	400
Coil water cap.	dm³	1.1	1.1
Radiator water cap.	dm³	4.2	4.2
Minimum noise	dB(A)	0	0
Maximum Noise	dB(A)	44	44
Fan power consumption	W	45	45
Dimensions (WxHxD)	mm	578x757x160	578x757x160
Net weight	kg	35	32
CODE		1501501	1501501E

OPTIONAL ACCESSORIES	Code	VR200	VR200ECO
Central control panel	1505000	VR200	n.a.
Hose kit (2) + brass lockshield for wall installation	1505001	VR200	VR200ECO
Hose kit (2) + brass lockshield for floor installation	1505001F	VR200	VR200ECO
Electronic humidistat control	1505008	VR200	n.a.
Support leg kit	1505007	VR200	VR200ECO
Touch screen top control with Wi-Fi	1501651	n.a.	VR200ECO

HWFC High wall fan coil

ECA Technology's wall fan coil models are the ideal units for combining well-being and comfort with interior design and aesthetics.

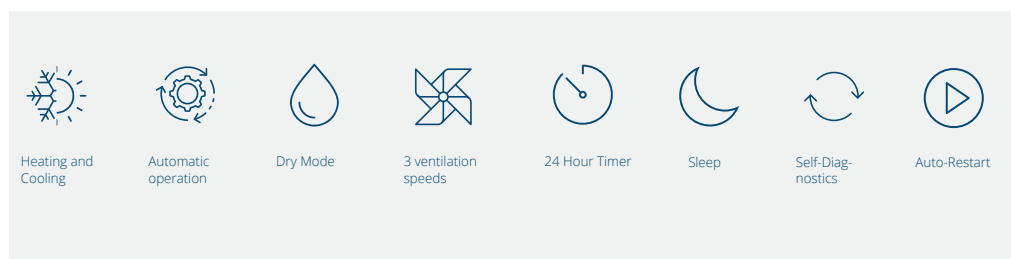
They include a heat pump that produces hot or cold water to provide **heating** and **cooling**. Easy to use, wall fan coil units are ideal for residential and commercial applications in combination with all types of systems.



HWFC Hydronic wall



HWFC High wall fan coil



I Plus

- Version for 2-pipe systems;
- Easily accessible washable filters;
- Control for external valve;
- Minimum thermostat;
- Vent valve.

MODEL		HWFC 0918	HWFC 1218	HWFC 1818
Power supply	V/Ph/Hz	230/1/50	230/1/50	230/1/50
Total cooling capacity ¹	kW	2.50	3.60	4.00
Heating capacity ²	kW	2.80	4.10	4.50
Pressure drop (cool./heat.)	kPa	21/22	44/44	45/45
Air flow volume (max/med/min)	m³/h	550/390/340	680/600/530	850/708/616
Power consumption	W	50	60	66
Water flow rate	m³/h	450	600	700
Sound pressure (max)	dB(A)	40	43	48
Net Weight	kg	10	12	12
Dimensions (WxDxH)	mm	840x180x275	940x200x298	940x200x298
Hydraulic fittings	Ø	1/2"		
CODE		1601070	1601071	1601072

(1) Cooling: Room air temperature 27°C DB / 19°C WB, Water temperature inlet 7°C, outlet 12°C;

(2) Heating: Room air temperature 20°C DB, Water temperature inlet 45°C, outlet 40°C;

OPTIONAL ACCESSORIES		abb.	Code
	2-way valve on/off *	V23	1601081
	3-way valve/4 connections on/off *	V34	1601082
	Wall box CP09	CP9	1601086
	Wall cassette CP12/18	CP12/18	1601087
	Ready recessed module without condensate drain	MP1	1601090
	Ready recessed module with left and right condensate drain	MP4	1601093
	Ready recessed module with integrated syphon (reversible)	MP6	1601095

* Supplied as standard (not fitted)

FSW and FSWE ducted fan coil units

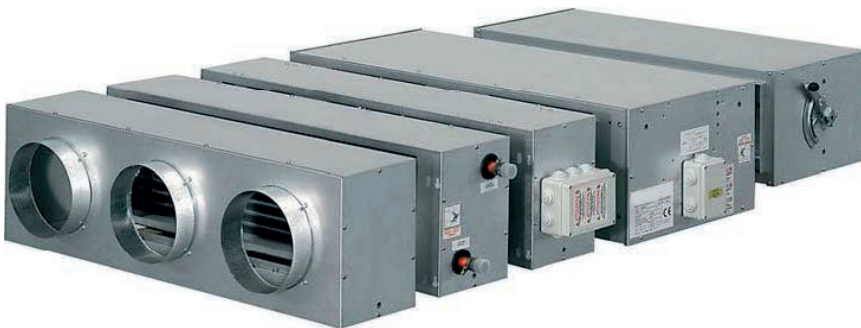
Ducted air conditioners in the FSW series are suitable for applications in small and medium-sized residential, commercial or industrial environments. The small size of the units and the modular nature of the accessories simplify installation in small areas and provide a wide range of solutions to meet all requirements.

The FSW series consists of 7 sizes that span a range of flow rates from 930 m³/h to 4200 m³/h.

The units begin with basic modules that include water coil and electric fan that can be extracted from below for inspection and also with low consumption EC motorisation (FSWE).

Two versions are available:

- **horizontal**, referred to as FSW / 0
- **vertical**, referred to as FSW / V



FSW ductable fan coil unit



FSW and FSWE ducted fan coil units

- Internally coated Aluzink sheet metal structure;
- Exchanger with 3- or 4-row finned copper coil and stainless steel drip tray;
- FSW: AC centrifugal electric fan with 3 balanced speeds and low noise emission;
- FSWE: Centrifugal electric fan coupled to a low consumption 0-10V EC electric motor;



FSW / FSWE MODEL		100	100 E	170	170 E	200	200 E	220	220 E	250	250 E	350	350 E	450	450 E
Nominal air flow volume	m³/h	900		1500		1600		2100		2400		3600		4200	
Useful static pressure ¹	Pa	95	95	100	100	85	80	110	125	105	110	120	90	115	100
FAN															
Power supply	V/Ph/Hz	230/150		230/150		230/150		230/150		230/150		230/150		230/150	
Nominal current cons. ¹	A	0.7	0.5	1.2	1.7	1.2	1.9	1.5	2.6	1.7	3.1	3.3	2.2	4.7	3.3
Maximum current cons.	A	1.1	1.2	1.5	2.0	1.5	2.0	2.0	3.7	2.1	3.7	4.0	2.7	5.1	3.5
Nom. power consumption ²	W	170	153	216	213	225	230	325	330	375	400	640	500	910	760
Maximum power consumption	W	230	154	305	245	295	245	435	465	450	465	770	610	990	800
n° speeds or adjustment type ³		3	0-10V	3	0-10V	3	0-10V	3	0-10V	3	0-10V	3	0-10V	3	0-10V
WATER COIL															
Rows	No.	3		3		4		3		3		3		4	
COOLING ⁵															
Total cooling capacity	W	4600		7450		9070		10500		13100		15700		20700	
Water side pressure drop	kPa	16		19		21		17		21		22		26	
Water flow rate	m³/h	0.72		1.20		1.55		1.60		1.90		2.60		3.60	
HEATING ⁶															
Nominal heating	W	9800		15500		19700		21600		25900		35500		46300	
Water side pressure drop	kPa	13		19		21		18		22		22		25	
Water flow rate	m³/h	0.88		1.40		1.76		1.90		2.30		3.20		4.20	

(1) Referred to nominal flow rate at maximum speed

(2) Selectable with SV or PCU commands

(3) Electronically adjustable with PC10R command

(4) Sound pressure level: values referred to 1.5 m from the machine intake in free field at nominal flow rate. The operating noise level generally deviates from the indicated values depending on the operating conditions, reflected noise and peripheral noise.

(5) Inlet air temperature 27°C DB, 19° WB. Inlet/outlet water temperature 7/12°C. Values referred to nominal air flow rate.

(6) Inlet air temperature 20°C DB. Inlet/outlet water temperature 70/60°C. Values based on nominal air flow rate.

FSW MODEL	100	170	200	220	250	350	450
CODE HORIZONTAL V.	0003321	0003322	0003323	0003324	0003325	0003326	0003327
CODE VERTICAL V.	0003331	0003332	0003333	0003334	0003335	0003336	0003337

FSWE MODEL	100	170	200	220	250	350	450
CODE HORIZONTAL V.	0003321E	0003322E	0003323E	0003324E	0003325E	0003326E	0003327E
CODE VERTICAL V.	0003331E	0003332E	0003333E	0003334E	0003335E	0003336E	0003337E

FSW and FSWE - Accessories

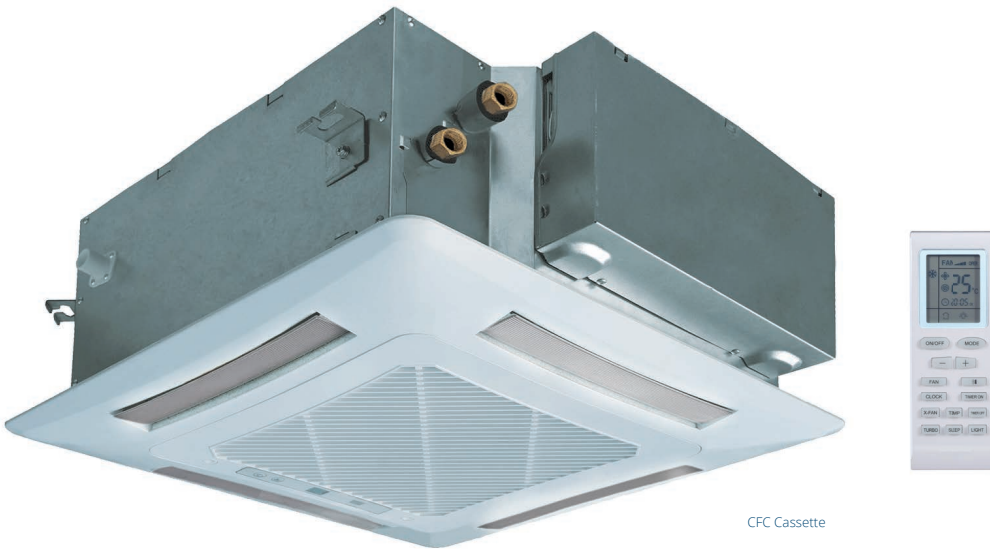
MODEL	Abb.
Water coil	BWS
Delivery nozzles	BMS
Dual electric elements	RE2S
Duct connection flange	FCS
Return grille	GRAS
Intake plenum	PLAS
Flexible duct plenum	PCFS
Delivery Plenum	PMS
Electrical element	RES
Filter section	FAS
Mixer section	MIS
Speed selector	SV
AC unit control panel with bypass	PCU

CFC Cassette Fan Coil

The CFC series water cassettes are air distribution units suitable for installation in false ceilings where an aesthetically pleasing appearance and less space is a pre-requisite. They are combined with heat pump solutions for summer and winter room air conditioning.

They are available in 6 power sizes, equipped with a 3-speed AC electric motor and are ideal for 2-pipe systems.

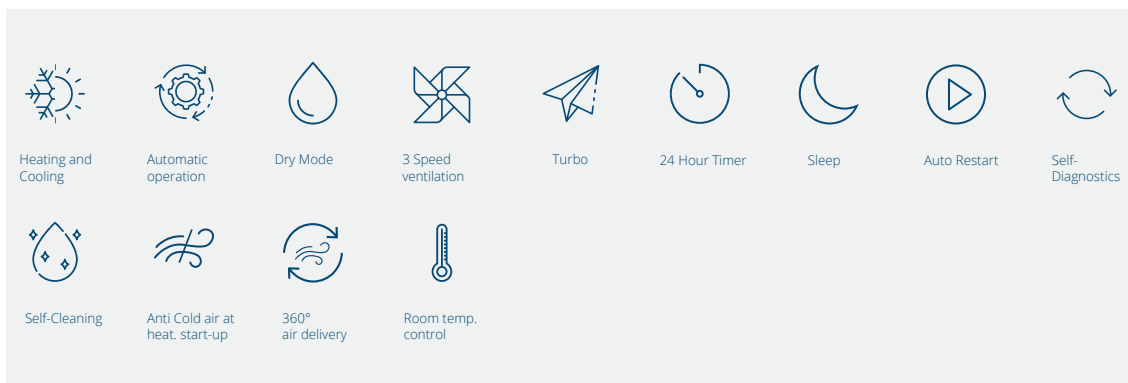
The dimensions are extremely compact and maintenance is made easy by the fact that all components can be accessed by simply removing the front panel.



CFC Cassette



CFC Cassette Fan Coil



I Plus

- Built-in condensate drain pump;
- Motorised louvres;
- Easily accessible washable Nylon filters;
- Compact size;
- Electronics ready for connection with wired controller remote control (optional);
- Remote control as standard;

MODEL		CFC270	CFC300	CFC400	CFC450	CFC520	CFC600
Nominal heating	max - kW	3.40	3.80	5.40	6.10	6.90	8.40
	med - kW	3.12	3.12	4.53	5.36	5.82	7.45
	low - kW	2.59	2.59	4.12	4.92	5.29	7.21
Water flow rate	l/h	540	540	780	930	1,000	1,290
Max pressure drop in heating	kPa	38	38	37	46	32	38
Total cooling capacity-Sensible	max - kW	2.75-2.60	3.30 - 2.70	4.50 - 3.13	5.00 - 3.60	6.00 - 4.31	7.40 - 5.44
	med - kW	2.69 - 1.99	2.69 - 1.99	3.88 - 2.80	4.59 - 3.33	5.20 - 3.81	6.61 - 5.01
	low - kW	2.24 - 1.60	2.24 - 1.60	3.55 - 2.53	4.22 - 3.05	2.69 - 3.41	6.40 - 4.84
Water flow rate	l/h	460	460	670	790	890	1,140
Max pressure loss in cooling	kPa	30	30	27	34	21	30
Power supply		230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Power consumption (min-max)	W	39-73	39-78	51-81	68-110	79-105	119-143
Air flow rate	max - m³/h	510	660	800	940	1090	1400
	med - m³/h	400	560	665	770	860	1160
	low - m³/h	300	460	590	670	760	1000
Sound pressure (min-max)	dB(A)	33-46	33-46	35-39	35-49	38-43	44-50
Sound power (min-max)	dB(A)	41-53	41-53	49-54	50-55	46-52	51-54
Inlet water temperature (min-max)	°C	5-60	5-60	5-60	5-60	5-60	5-60
Max. operating pressure	bar	16	16	16	16	16	16
Min-max room temperature	°C	16-40	16-40	16-40	16-40	16-40	16-40
Net Weight	kg	20	20	25	25	27	27
Dimensions (WxDxH)	mm	664x596x240	664x596x240	840x840x190	840x840x190	840x840x240	840x840x240
Ceiling opening dimensions	mm	596x596	596x596	890x890	890x890	890x890	890x890
Cassette panel dimensions (WxDxH)	mm	670x670x60	670x670x60	950x950x85	950x950x85	950x950x85	950x950x85
Net weight of cassette panel	kg	3.5	3.5	7	7	7	7
Hydraulic fittings	Ø	3/4"					
CODE		1603050	1603051	1603052	1603053	1603054	1603055
GRILLE CODE		1604050		1604051			

Cooling: Room air temperature 27°C DB / 19°C WB, Water temperature inlet 7°C, outlet 12°C;
 Heating: Room air temperature 20°C DB, Water temperature inlet 45°C, outlet 40°C;

OPTIONAL ACCESSORIES	Code
Remote wall controller	1604052
ON-OFF Remote Control Kit (to pair with wired controller)	2701450

Floor / Ceiling / Recessed Fan Coil Units

Reliable, guaranteed high- quality components, silent operation and versatility of application make this fan coil unit an excellent product for heating and air conditioning all types of environments.

a wide range of accessories is available for the product for application in all types of systems.



PVGO
Floor vertical
with adjustable grilles



PVAf
Floor vertical with front
intake



SOGO
Ceiling horizontal with
adjustable grilles



SOAF
Ceiling horizontal with
front intake



IVAV
Recessed vertical with
variable intake



IVMF
Recessed vertical with front delivery
and underside intake



IOAV
Recessed horizontal with
vertical intake



IVAF
Recessed vertical with front
delivery and intake



Floor Ceiling / Recessed - **AC VERSION**



AC MODEL		316	320	628	634	840	847	1250	1260	1575
Max. air flow volume	m³/h	332	332	522	522	692	692	1060	1060	1359
Maximum total cooling capacity ⁽¹⁾	kW	1.65	2.04	2.66	3.06	3.82	4.39	5.13	6.03	7.52
Max. sensitive cooling capacity ⁽¹⁾	kW	1.21	1.44	1.92	2.24	2.62	3.05	3.50	4.17	5.29
Max water flow rate (1)	l/h	283	350	457	525	655	753	880	1060	1359
Max heating capacity power (2)	kW	3.83	4.39	6.10	6.89	8.26	9.29	11.28	13.00	16.57
Max heating capacity power (3)	kW	2.25	2.60	3.56	4.04	4.88	5.51	6.64	7.67	9.76
Water flow rate (3)	l/h	283	350	457	525	655	753	880	1060	1359
Power consumption	W	33	33	43	43	87	87	140	140	147
PVGO Dimensions (WxHxD)	mm	860x486 x222	860x486 x222	1120x486 x222	1120x486 x222	1380x486 x222	1380x486 x222	1380x486 x222	1380x486 x222	1640x486 x222
Net weight (PVGO-PVAF-SOGO-SOAF)	kg	17	18	22	23	27.5	29	27.5	29	35
Net weight (IVAV-IVMF-IVAF-IOAV)	kg	15	16	19	20	23	24	23	24	29
Hydraulic fittings		GFØ=1/2"								

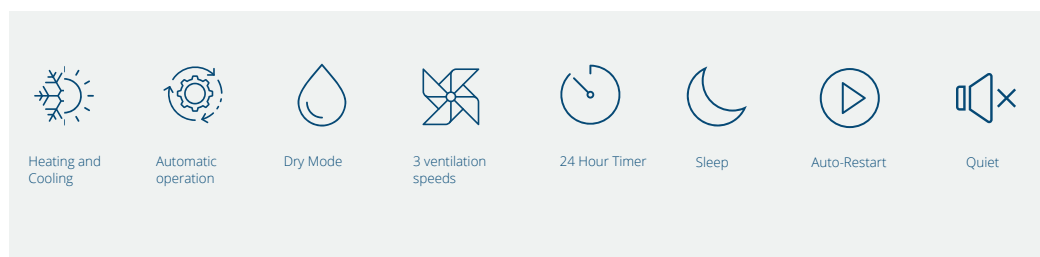
(1) Room temperature: 27°C - 47% RH - T. water (in/out): 7 / 12°C

(2) Room temperature: 20°C - T. water (in/out): 70 / 60°C

(3) Room temperature: 20°C - T. water (in/out): 50°C - same cooling water flow rate

PVGO MODEL		316	320	628	634	840	847	1250	1260	1575
CODE		1502001	1502002	1502003	1502004	1502005	1502006	1502007	1502008	1502009
PVAF MODEL		316	320	628	634	840	847	1250	1260	1575
CODE		1502101	1502102	1502103	1502104	1502105	1502106	1502107	1502108	1502109
SOGO MODEL		316	320	628	634	840	847	1250	1260	1575
CODE		1502201	1502202	1502203	1502204	1502205	1502206	1502207	1502208	1502209
SOAF MODEL		316	320	628	634	840	847	1250	1260	1575
CODE		1502301	1502302	1502303	1502304	1502305	1502306	1502307	1502308	1502309
IVAV MODEL		316	320	628	634	840	847	1250	1260	1575
CODE		1502401	1502402	1502403	1502404	1502405	1502406	1502407	1502408	1502409
IVMF MODEL		316	320	628	634	840	847	1250	1260	1575
CODE		1502501	1502502	1502503	1502504	1502505	1502506	1502507	1502508	1502509
IOAV MODEL		316	320	628	634	840	847	1250	1260	1575
CODE		1502601	1502602	1502603	1502604	1502605	1502606	1502607	1502608	1502609
IVAF MODEL		316	320	628	634	840	847	1250	1260	1575
CODE		1502701	1502702	1502703	1502704	1502705	1502706	1502707	1502708	1502709

Floor Ceiling / Recessed - **EC VERSION**



MOD. EC with Brushless motor		316	320	628	634	840	847	1250	1260	1575
Max. air flow volume	m³/h	368	368	535	535	850	850	1004	1004	1364
Maximum total cooling capacity ⁽¹⁾	kW	1.81	2.22	2.72	3.12	4.37	5.11	4.94	5.11	4.94
Max. sensitive cooling capacity ⁽¹⁾	kW	1.30	1.56	1.95	2.29	3.02	3.55	3.38	4.00	5.31
Max water flow rate (1)	l/h	310	380	466	535	750	877	847	999	1294
Max heating capacity power (2)	kW	4.16	4.78	6.20	7.02	9.58	10.93	10.88	12.48	16.60
Max heating capacity power (3)	kW	2.44	2.83	6.62	4.12	5.65	6.48	6.39	7.37	3.77
Water flow rate (3)	l/h	310	380	466	535	750	877	847	999	1294
Power consumption	W	16	16	19	19	35	35	58	58	107
PVGO Dimensions (WxHxD)	mm	860x486 x222	860x486 x222	1120x486 x222	1120x486 x222	1380x486 x222	1380x486 x222	1380x486 x222	1380x486 x222	1640x486 x222
Net weight (PVGO-PVAF-SOGO-SOAF)	kg	17	18	22	23	27.5	29	27.5	29	35
Net weight (IVAV-IVMF-IVAF-IOAV)	kg	15	16	19	20	23	24	23	24	29
Hydraulic fittings		GFØ=1/2"								

(1) Room temperature: 27°C - 47% RH - T. water (in/out): 7 / 12°C

(2) Room temperature: 20°C - T. water (in/out): 70 / 60°C

(3) Room temperature: 20°C - T. water (in/out): 50°C - same cooling water flow rate

PVGO MODEL		316	320	628	634	840	847	1250	1260	1575
CODE		1502011	1502012	1502013	1502014	1502015	1502016	1502017	1502018	1502019
PVAF MODEL		316	320	628	634	840	847	1250	1260	1575
CODE		1502111	1502112	1502113	1502114	1502115	1502116	1502117	1502118	1502119
SOGO MODEL		316	320	628	634	840	847	1250	1260	1575
CODE		1502211	1502212	1502213	1502214	1502215	1502216	1502217	1502218	1502219
SOAF MODEL		316	320	628	634	840	847	1250	1260	1575
CODE		1502311	1502312	1502313	1502314	1502315	1502316	1502317	1502318	1502319
IVAV MODEL		316	320	628	634	840	847	1250	1260	1575
CODE		1502411	1502412	1502413	1502414	1502415	1502416	1502417	1502418	1502419
IVMF MODEL		316	320	628	634	840	847	1250	1260	1575
CODE		1502511	1502512	1502513	1502514	1502515	1502516	1502517	1502518	1502519
IOAV MODEL		316	320	628	634	840	847	1250	1260	1575
CODE		1502611	1502612	1502613	1502614	1502615	1502616	1502617	1502618	1502619
IVAF MODEL		316	320	628	634	840	847	1250	1260	1575
CODE		1502711	1502712	1502713	1502714	1502715	1502716	1502717	1502718	1502719

Floor Ceiling / Recessed - **ACCESSORIES**



CVP-CVB



TP3-TB3



REP2-REB2



REP3-REB3

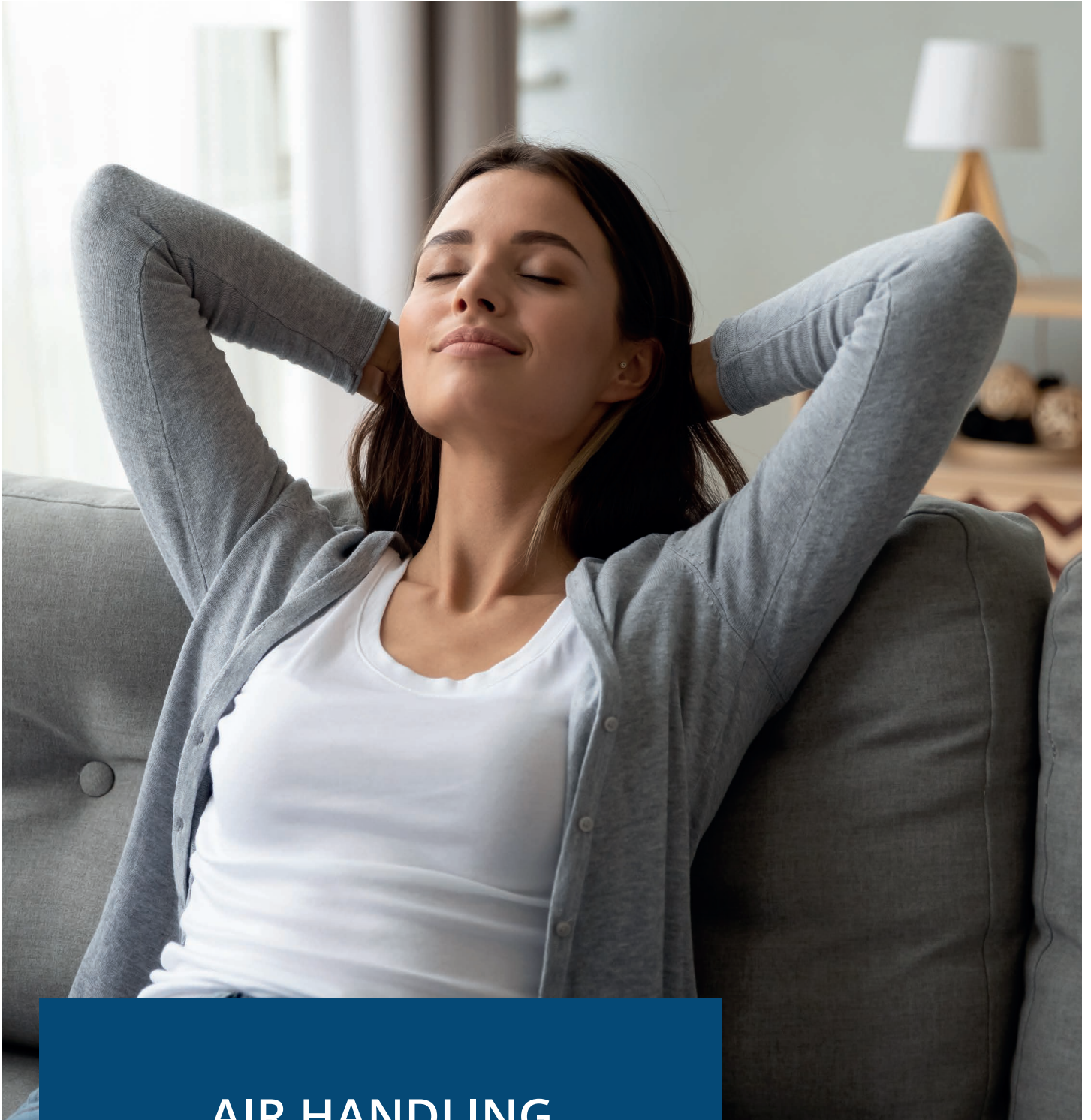


TP5

MODEL	abb.
ANALOGUE CONTROLS	
Wired S/W speed control	CVP
On-board S/W speed control	CVB
Electromechanical wall-mounted room thermostat with speed selector and S/W	TP3
O- board electromechanical room thermostat with speed selector and S/W	TB3
Recessed thermostat*	TP5
Elevator module	ELMZ
EC control board from analogue control	SC3
ADVANCED DIGITAL CONTROLS	
Digital wall unit*	REP3
On-board digital unit*	REB3
Slave board REP3/REB3	SP3
Multifunctional digital controller	REP2
On-board multifunctional digital controller	REB2
BUILT-IN ACCESSORIES	
Minimum thermostat	TM
Water probe	SND
Electric heater	RE
VALVES AND LOCKSHIELDS	
3-way valve 4 ports on/off	V23
3-way valve 4 ports on/off 4 pipes	V43
2-way on/off valve for 2-pipe systems	V22
2-way on/off valve for 4-pipe systems	V42
2-way lockshields	DET2
4-way lockshields	DET4
OTHER ACCESSORIES	
Pair of legs	PD
Outdoor air intake	PAV
Outdoor air intake fitting	PAE
Delivery plenum with circular fittings Ø160	PMZE
Intake plenum with circular fittings Ø160	PAZE
Insulation for plenum	COIB
Return grille	GFA
Delivery grille	GFM

* Includes water probe (SND)

MODEL	abb.
IVAF	
Metal housing IVAF (WxDxH)	CC
External metal panel IVAF	PEM



AIR HANDLING



Residential Line



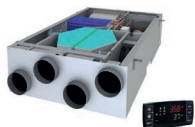
DRY RADIANT
RADIANT SYSTEM DEHUMIDIFIER



HFR
HORIZONTAL CEILING UNITS



HFRM
VERTICAL WALL UNITS



HRH
DEHUMIDIFIER WITH HEAT RECOVERY UNIT

Commercial Line



HRS+ and HRSE+
HEAT RECOVERY UNIT

The **advantages** of proper **ventilation**

A controlled mechanical ventilation system with heat recovery is a system designed for the **continuous air exchange** in the home and in all indoor environments in general that allows stale air to be replaced and substituted with fresh, oxygen-rich outside air.

The choice of integrating a ventilation system into a building makes it possible to ensure proper exchange of air in closed rooms in all situations where it cannot be managed by opening windows. This is essential in promoting the evacuation of pollutants that accumulate in indoor spaces by ensuring **greater comfort** and **health** at home or in office spaces.

Mechanical ventilation is also essential in all modern homes or buildings with high energy efficiency and a high percentage of insulation for the prevention of issues regarding humidity and mould.

The most advanced VMC systems include a **heat recovery** system: the thermal energy of the outgoing air that has been heated or cooled is retained in the exchanger and then transferred to the incoming air, which will therefore be warmer in winter and cooler in summer than the outdoor air.

I Plus

- Continuous, uniform temperature management;
- Control of the percentage of humidity in rooms;
- Advanced air filtering;
- Containment of external noise;
- Reduction of energy loss to a minimum.



Dry Radiant - Radiant system dehumidifier

The DRY RADIANT series is used for **summer dehumidification** of rooms cooled by radiant panels.

Designed and manufactured to be installed exclusively indoors, it supplies air at the outlet at a **neutral temperature with respect to room air**. Operates in hot and cold integration. This feature is ensured by the inclusion of a post-cooling coil in the machine in which water from the radiant panel system is circulated.



Ducted ceiling unit mod.
80H and 80H-HI

Composition of basic unit

- Cooling circuit consisting of coils, pre-treatment and post-treatment with water in copper tubes and treated aluminium fins,
- Spring-mounted reciprocating compressor,
- Capillary expansion,
- Filter dehydrator,
- Evaporator and condenser in series with copper-aluminium exchangers,
- Low speed centrifugal fan for complete comfort in the room.



Panel for installation
on vertical wall
mod. 80V and 80V-HI

Versions:

DRY RADIANT 80 V - Recessed vertical visible (optional panel)

DRY RADIANT 80 V - HI - Vertical with recessed visible summer integration (optional panel)

DRY RADIANT 80 H - Ducted horizontal

DRY RADIANT 80 H-HI - Ducted horizontal with summer integration



Electronic
humidistat



Mechanical
humidistat

MODEL		80V	80H	80V-HI	80H-HI
Type		RECESSED WALL	DUCTED CEILING	RECESSED WALL	DUCTED CEILING
Power supply	V/Ph/Hz	230/1/50			
Indicative volume handled	m ³	200/250			
Nominal air flow volume	m ³ /h	260			
Total nominal water flow rate to pre- and post-treatment coils (coils connected in parallel)	l/h	175		210	
Nominal power consumption	W	360	370	360	370
Centrifugal fan		6 selectable speeds			
Max. total integration cooling capacity	kW	-	-	2.40	
Unit dimensions (WxHxD)	mm	695x201x695	593x800x250	695x201x695	593x800x250
Dimensions of wooden recess template (WxHxD)	mm	740x222x740	-	740x222x740	-
Weight	kg	37	40	37	40
Refrigerant gas (type/GWP)	charge / tons CO ₂	R134a / 1430			
Refrigerant gas charge	g	285		300	
CODE		2005005	2005006	2005003	2005004

OPTIONAL ACCESSORIES	Code
Housing + MDF RAL9010 wooden front panel	2005051
Housing + RAL9010 metal front panel	2005052
Electromechanical wired humidistat control	2005053
Electronic wired humidistat control	2005057
Basic microprocessor board*	2005058
Ducted ceiling version delivery plenum	2005056

* mandatory for basic versions 80V and 80H.

HFR - Horizontal ceiling units

Air renewal units for residential application in the HFR series feature very high heat recovery efficiency, light weight and compactness, and easy, trouble-free installation.

Heat recovery, which takes place using a device made entirely of polystyrene, makes it unnecessary to use post-handling systems for replacement air.

They can be supplied in combination with an air ionisation system, which is used to sanitise and deodorise air and the surfaces of the machine, ducting and neighbouring rooms.

- Compliant with ERP 2016-2018,
- Low consumption EC fans,
- Integrated by-pass system,
- Compact and ultra lightweight,
- Radio-wave control panel with no wiring (optional)
- Filters and PM10 50%



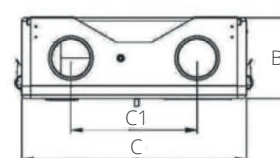
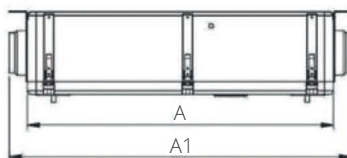
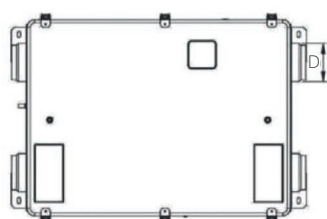
HFR heat recovery unit

MODEL		HFR17	HFR33
Power supply	V/Ph/Hz	230/1/50	
Nominal air flow volume	m³/h	100	200
Maximum air flow volume	m³/h	175	330
Nominal static flow rate	Pa	210	250
Weight	kg	12	17
Sound pressure level (1)	dB (A)	46	50
Operating limits	°C	-15 - 45	
FANS			
Max. current consumption	A	0.52	1.50
Max power consumption	W	54	170
Level of protection	IP	54	
Control signal	0-10 VDC		
WINTER OPERATION HEAT RECOVERY UNIT ⁽²⁾			
Seasonal	%	92.1	90.0
Recovered power	W	778	1520
Intake air	°C/%	18.0 / 16	17.4 / 17
SUMMER OPERATION HEAT RECOVERY UNIT ⁽³⁾			
Efficiency	%	87.5	83.9
Recovered power	W	174	334
Intake air	°C/%	26.8 / 68	27.0 / 67
CODE		0006401	0006402

(1) values refer to 1 metre from the unit in the inlet duct at nominal air flow rate; the operating noise level will generally deviate from the values indicated depending on the operating conditions of reflected and peripheral noise

(2) Nom. winter conditions outside air -5°C, room air 20°C

(3) Nom. summer conditions outside air 32°C, room air 26°C



MODEL DIMENSIONS		HFR17	HFR33
A	mm	874	874
A1	mm	972	972
B	mm	240	300
C	mm	655	655
C1	mm	360	360
D	mm	125	125
D1	mm	16	16

HFRM - Vertical wall units

Air renewal units for residential application in the HFRM series feature very high heat recovery efficiency, light weight and compactness, and easy, trouble-free installation. Heat recovery, which takes place using a device made entirely of polystyrene, makes it practically unnecessary to use post-handling systems for replacement air. They can be supplied in combination with an air ionisation system, which is used to sanitise and deodorise air and the surfaces of the machine, ducting and neighbouring rooms.

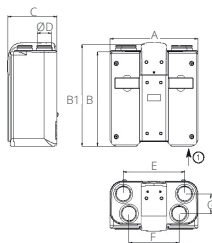
- Compliant with ERP 2016-2018,
- Low consumption EC fans,
- Integrated by-pass system,
- Compact and ultra lightweight,
- F7 return filtering,
- G4 expulsion filtration.



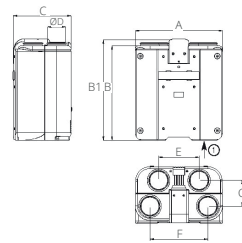
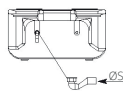
HFRM heat recovery unit

MODEL		HFRM15	HFRM25	HFRM35	HFRM50	HFRM60
Power supply	V/Ph/Hz	230/1/50				
Maximum nominal air flow volume 100Pa	m³/h	152	250	352	500	610
Nominal static air flow	Pa	300	100	280	100	100
Dimensions	mm	700x800x390	700x800x390	905x1030x600	905x1030x600	905x1030x600
Weight	kg	15	18	28	30	35
Sound pressure level ⁽¹⁾	dB (A)	49	52	54	55	55
Outdoor temperature/humidity limits	°C	-5...+45/5...95%				
Indoor temperature/humidity limits	°C	+10...+35/10...90%				
FANS						
Total nominal current consumption	A	0.60	1.30	1.30	1.70	1.30
Total nominal power consumption	W	64	58	58	86	153
Max. electric power consumption	W	136	136	196	196	340
Maximum total current consumption	A	1.30	1.30	1.70	1.70	3.40
WINTER OPERATION HEAT RECOVERY UNIT						
Heating efficiency ⁽¹⁾	%	87.2	87.0	85.7	88.2	84.8
Air delivery temperature ⁽¹⁾	°C	17.0	22.0	16.4	17.0	16.2
SUMMER OPERATION HEAT RECOVERY UNIT						
Heating efficiency ⁽²⁾	%	82.4	79.9	80.4	81.0	79.2
Air delivery temperature ⁽²⁾	°C	27.1	27.2	27.2	27.1	27.2
CODE		0006451	0006452	0006453	0006454	0006455

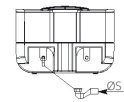
(1) Outdoor air -5°C 80% RH; room air 20°C 50% RH
(2) Outdoor air 32°C 50% RH; room air 26°C 50% RH



HFRM 15 - 25



HFRM 35 - 60



MODEL DIMENSIONS		HFRM15	HFRM25	HFRM35	HFRM50	HFRM60
A	mm	700	700	905	905	905
B	mm	740	740	970	970	970
B1	mm	800	800	1030	1030	1030
C	mm	390	390	600	600	600
E	mm	490	490	418	418	418
F	mm	400	400	600	600	600
G	mm	155	155	265	265	265
ØD	mm	125	125	200	200	200
ØS	mm	20				

Accessories - HFR and HFRM



WUI



ANT



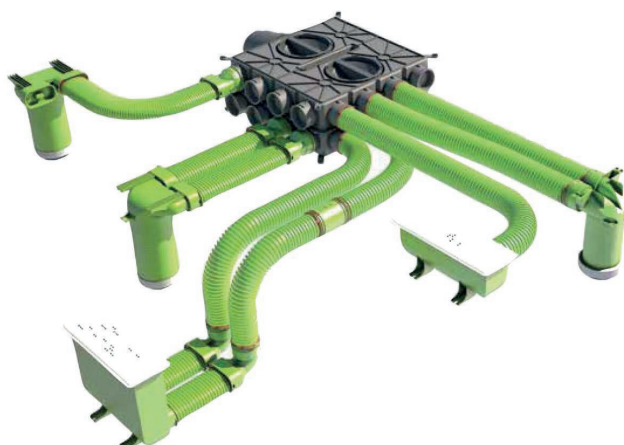
TS4



USW

MODEL	Abb.
Electrical Pre-heat.	BE1
Electric Post-Heat.	BE2
Water Pre-heat. coil	BW1
	BW2
Water Post-cool.-heat. coil	BHC
2-way valve kit ON-OFF	V20
3-way valve kit MODULATING	V3M
Filter and PM1 70%	F7CF
ADJUSTMENT ACCESSORIES	
4-button radio freq. panel	TS4
Antenna	ANT
Wall-mounted control panel	WUI
Wall-mounted CO2 probe	QSW
Wall-mounted humidity probe	USW
Ethernet network bridge	BDG
Ionizer Module	Ion

Air distribution accessories - HFR, HFRM and HRH



Air distribution systems for controlled mechanical ventilation are available on request.

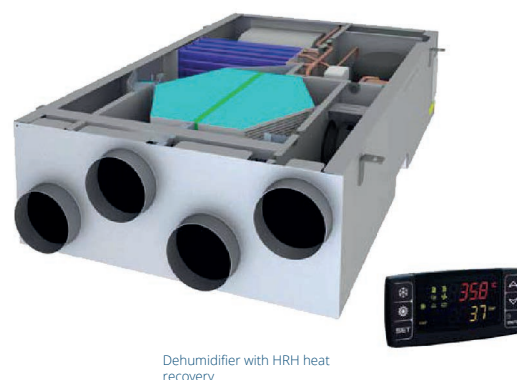
HRH - Dehumidifier with heat recovery

HRH very high efficiency **dehumidifiers with heat recovery** are designed to ensure **dehumidification** and **renewal of air** in very high, energy efficient residential environments in combination with radiant cooling systems.

The units guarantee **dehumidification of air** both in conditions of thermally neutral user air and in conditions of cooled air, managing very small airflows thus preventing the formation of annoying draughts that are typical of traditional air conditioning systems.

Units consist of a direct expansion cooling circuit combined with an extremely efficient cross-flow heat recovery unit, designed to ensure heat recovery and room air exchange in compliance with regional and national regulations. All units are equipped as standard with a double condenser (the first with air, the second with water) and operating specifications that allows dehumidification with both neutral and cooled air.

- Microprocessor control,
- Flow switch,
- 3-way modulating valve,
- EC delivery and return fans,
- G5 air filter,
- Fan calibration microswitches



Dehumidifier with HRH heat recovery

MODEL		HRH26	HRH51
Power supply	V/Ph/Hz	230/1/50	
Refrigerant (type / GWP)	charge / tons CO ₂	R134A / 1430	R410A / 2088
Useful dehumidification capacity (1)	l/24h	30.1	61.8
Total room cooling capacity (1)	W	1380	2820
Recovered winter heating capacity (2)	W	950	1850
Nominal winter heat rec. unit efficiency (2)	%	90%	90%
Nominal summer heat rec. unit efficiency (1)	°C	75%	72%
Nominal compressor power consumption	W	340	480
Power consumption delivery fan (min/nom/max)	W	10 - 30 - 86	30 - 60 - 30
Power consumption return fan (min/nom/max)	W	11 - 22 - 43	22 - 44 - 68
Delivery fan useful pressure (nom/max)	Pa	50 - 140	50 - 140
Return fan useful pressure (nom/max)	Pa	50 - 140	50 - 140
Coil water flow rate (min/nom/max)	l/h	150 - 250 - 400	200 - 350 - 600
Hydraulic pressure drops (nom)	kPa	15	35
Delivery air flow rate	m ³ /h	130 - 260	250 - 500
Outdoor air flow rate	m ³ /h	80 - 130	140 - 250
Nominal useful static pressure	Pa	50	50
Sound power level (3)	dB(A)	47	52
Sound pressure level (4)	dB(A)	39	44
Dimensions (WxHxD)	mm	260x722x1105	400x835x1370
Weight	kg	60	80
CODE		0006802	0006812

Performance refers to the following conditions:

(1) Room temperature 26°C; relative humidity 65%; outdoor air 35%, relative humidity 50%, outdoor air flow 130 m³/h, water inlet temperature 15°C, nominal water flow rate

(2) Outdoor air -5°C, relative humidity 80%, room temperature 20°C, relative humidity 50%, maximum outdoor air flow rate

(3) Sound power level calculated according to ISO 9614

(4) Sound pressure values measured at 1 m distance from the unit in free field according to ISO 9614, at nominal operating conditions

NOTE: The above hermetically sealed products contain fluorinated greenhouse gases governed by the Kyoto Protocol.

ACCESSORIES	CODE
Remote thermo-humidistat	0006851
Remote control panel	0006852
I-PRO temp./humid. electronic probe	0006853
RS485 serial interface board	0006854
Circular inlet plenum HRH50	0006859
Circular input plenum HRH50	0006860

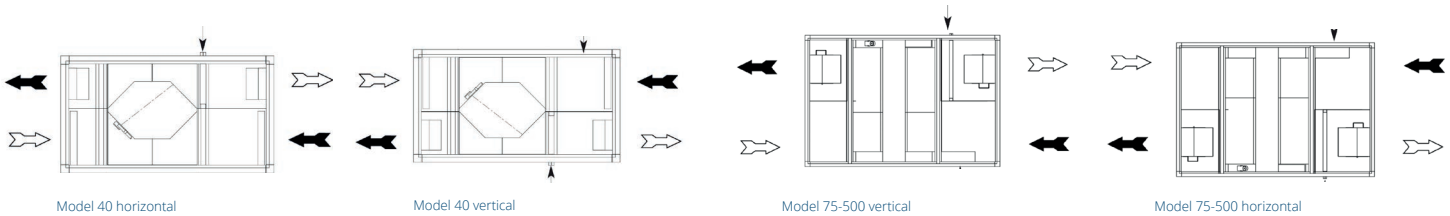
HRS+ and HRSE+ Heat recovery units

HRS+ and HRSE+ heat recovery units for **commercial applications**, combine optimum environmental comfort with definitive energy savings. The design feature in HRS+ HRSE+ heat recovery units saves more than 50% of the energy that would otherwise be lost through exhausted stale air. Suitable for installation in false ceilings, they can be ducted to allow air to be introduced and extracted directly from the room.

- Galvanised sheet metal structure with panels thick. 25mm, injected polyurethane insulation,
- Air filters efficiency class F7 on renewal air flow and M5 on exhaust air flow,
- By-pass for integrated free cooling,
- New AC fans compliant with EU Directive 1253/2014.
- Pressure switch for dirty filter alarm function.



HRS+ Heat recovery unit



AC Version

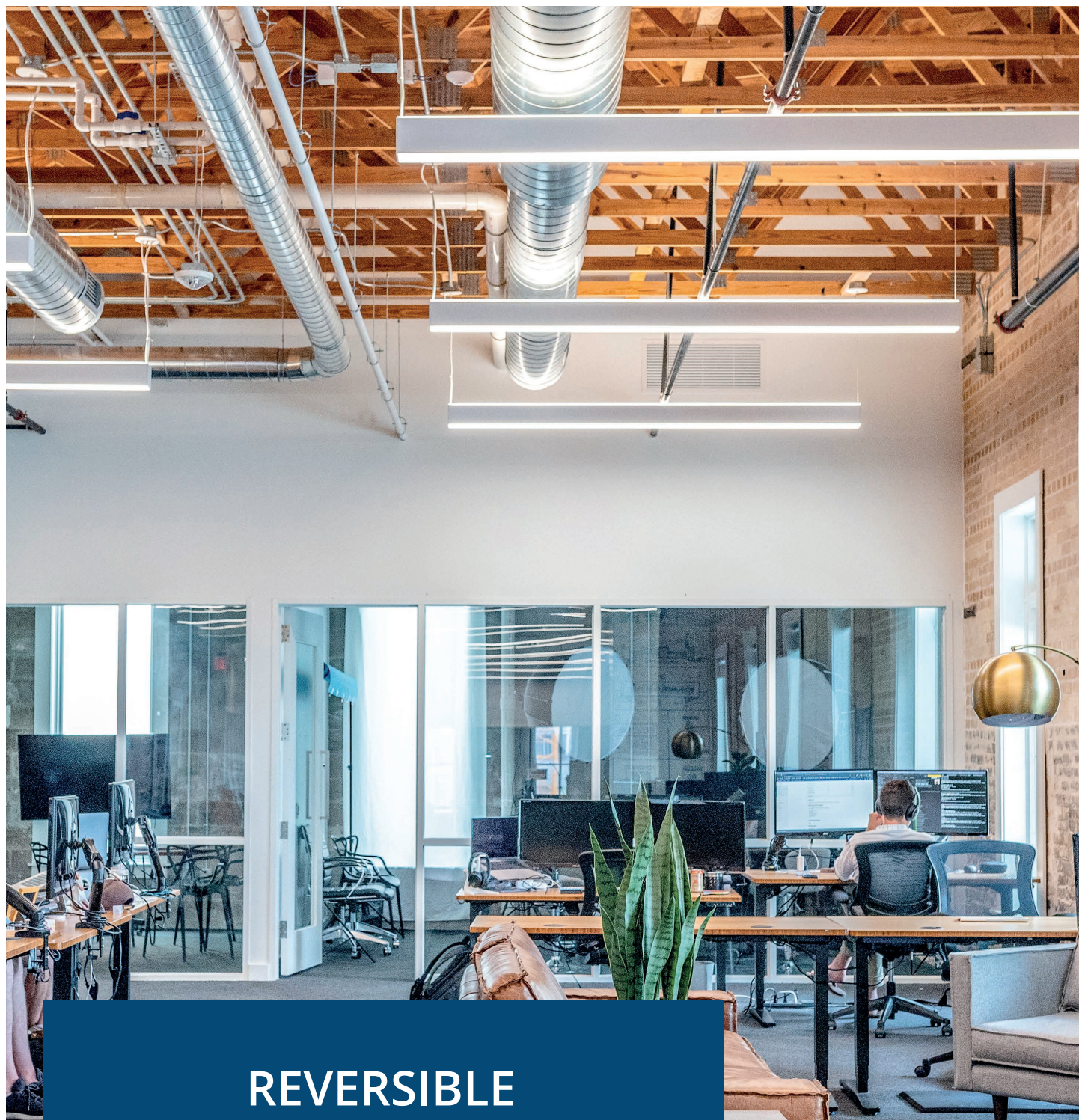
MODEL		HRS+40	HRS+75	HRS+100	HRS+150	HRS+200	HRS+320
Power supply	V/Ph/Hz	230/1/50					
Nominal air flow volume	m³/h	400	750	1000	1500	2050	3200
Useful static pressure	Pa	160	120	130	160	120	180
Dimensions W/H/D	mm	1480x380 x800	1940x480 x990	1940x480 x990	2200x550 x1000	2200x550 x1400	2500x680 x1400
Winter efficiency	%	83.6	82.9	81.6	83.3	83.7	86.8
Summer efficiency	%	75.5	75.9	74.5	75.1	75.6	78.0
CODE	vers.A	0006551	0006553	0006555	0006557	0006559	0006561
	vers.B	0006552	0006554	0006556	0006558	0006560	0006562

EC Version

MODEL		HRSE+40	HRSE+75	HRSE+100	HRSE+150	HRSE+200	HRSE+320	HRSE+400	HRSE+500
Power supply	V/Ph/Hz	230/1/50							
Nominal air flow volume	m³/h	400	750	1000	1500	2050	3200	3800	4700
Useful static pressure	Pa	160	120	130	160	120	180	200	200
Dimensions W/H/D	mm	1480x380 x800	1940x480 x990	1940x480 x990	2200x550 x1000	2200x550 x1400	2500x680 x1400	2500x680 x1400	2500x680 x1700
Winter efficiency	%	83.6	82.9	81.6	83.3	83.7	86.8	84.1	84.2
Summer efficiency	%	75.5	75.9	74.5	75.1	75.6	78.0	75.0	75.1
CODE	vers.A	0006551E	0006553E	0006555E	0006557E	0006559E	0006561E	0006563E	0006565E
	vers.B	0006552E	0006554E	0006556E	0006558E	0006560E	0006562E	0006564E	0006566E

HRS+ and HRSE+ Accessories

MODEL	HRS+ / HRSE+
	ABB.
Post-heating electric battery	BE
Post-heating water coil (internal)	BW
Section with hot/cold water coil	SBFR
Return filter class F7	F7CF
Post Filtration Section F7	DSF7
Post Filtration Section F9	DSF9
Adjustment damper	SR
Section 3 dampers for mixing/recirculation	RMS
Servomotor for SR damper	SM
Servo motor for SR damper with spring return	SMR
Servomotors for defr. dampers RMS	3SM230
Servomotors for defr. dampers RMS with spring return	3SMR230
Automatic free cooling bypass kit	KBP
Section circ. nozzle	SBC
Duct silencers	SSC
Warning lamp kit	KLS
Pressure switch for dirty filter alert	PS
Anti-freeze thermostat	ATG
2-way valve kit with servomotor on-off (BW-SBFR)	V2O
3-way valve kit with modulating servomotor (BW-SBFR)	V3M
Ionizer Module	ION
Outdoor installation kit	EXT
Outdoor air casing kit	CPA
HRS+ ADJUSTMENTS	
AC unit control panel with bypass	PCU
AC unit speed selector	SV
HRSE+ ADJUSTMENTS	
AC unit control panel with bypass	PCUE
Unit control panel with Modbus board	PCUEM
Unit control panel with 0-10V board	MCUE
Unit control panel with 0-10V board and Modbus board	MCUEM
Continuous flow fans	VSD
HRS+ / HRSE+ ADVANCED ADJUSTMENTS	
Management system with wall-mounted panel	SIGQ
Management system with on-board panel	SIGB
Modbus serial board	SCMB
CO2 duct probe	QSC
CO2 wall probe	QSA
Duct humidity probe	USD
Wall humidity probe	USW



REVERSIBLE HEAT PUMPS



Our objective is to create solutions for environmentally and energetically sustainable comfort.
In all the environments we spend time in.
In all the moments we live.

The targeted combination of research, design and advanced technology has enabled us to devise **360° reliable, efficient installation systems**, which provide well-being in residential as well as commercial buildings where **producing comfort while reducing energy maintenance costs** is essential.

ECA Technology's reversible heat pump systems, as a replacement for traditional systems, are designed to be integrated with a range of hydronic units to ensure optimum performance and activity.



BWHE

AIR -TO-WATER HEAT PUMPS from 6 kW to 41 kW



BWHE-Z

AIR -TO-WATER HEAT PUMPS from 41 kW to 160 kW

BWHE - Air-to-water heat pump from 6 kW to 41kW

Range of **air-to-water heat pumps** with axial fans and R410a gas designed and developed to provide optimum comfort and the highest levels of environmental well-being.

Rotary vane compressor in sizes 061 and 081, hermetic scroll compressor in sizes 101 to 411, including thermal protection in electric motor windings, casing heater and rubber anti-vibration pads.

Condenser consisting of a coil with copper pipes and aluminium fins with a high exchange surface area.

Helical fans directly coupled to 6-pin external rotor electric motor, IP 54 protection class with grille guard;

AISI 316 stainless steel brazed plate heat exchanger on the utility side, insulated with a closed-cell foam shell. The exchanger is equipped with a temperature probe for frost protection and a vane flow switch supplied as standard.

The unit includes

- General disconnection device,
 - Protection of auxiliary and power circuits,
 - Meter,
 - Coil protection mesh,
 - Microprocessor control
- (evaporation in the heat pump version) with fan speed controller,
- Flow switch (supplied),
 - Summer/Winter selection from digital input,
 - Remote On/Off from digital input,
 - Condensate drip tray (standard for sizes 061 to 161),
 - Phase monitor (only for units with three-phase power supply).



BWHE - Air-to-water heat pump from 6 kW to 41kW

MODEL		061	081	101	141	161	181	211	251	281	311	371	411
Power supply	V/Ph/Hz	230/1/50		400/3+N/50									
Cooling capacity (1)	kW	5.7	7.1	8.8	13.0	14.9	17.7	19.0	23.7	27.1	30.2	35.6	40.1
EER (1)		2.76	2.54	2.48	2.81	2.66	2.73	3.09	2.85	2.84	2.83	2.94	2.94
Heating Capacity (2)	kW	6.5	8.0	10.0	14.1	16.4	19.5	20.5	26.3	30.5	33.5	38.1	43.6
COP (2)		2.80	2.84	2.86	2.97	2.92	2.99	3.14	3.20	3.27	3.12	3.15	3.18
Number of compressors	No.	1	1	1	1	1	1	1	1	1	1	1	1
Number of fans	No.	1	1	1	2	2	2	2	2	2	2	2	2
Air flow volume	m³/h	4,000	4,000	3,800	8,000	8,000	7,600	14,000	14,000	13,200	19,000	19,000	17,800
Useful pump pressure (optional)	kPa	55	51	50	44	42	40	153	108	93	76	135	104
Tank capacity (opt)	L	70	70	70	70	70	70	140	140	140	140	140	140
Dimensions (basic v.) WxDxH	mm	925x375x700			925x375x1350			1105x505x1385			1305x505x1585		
Dimensions (W&C) WxDxH	mm	925x375x1049			925x375x1699			1105x505x1850			1305x505x2050		
Refrigerant	charge / tons CO ₂	R410A / 2088											
CODE		0008B001	0008B002	0008B003	0008B004	0008B005	000B006	0008B007	0008B008	0008B009	0008B010	0008B011	0008B012

(1) Outdoor air temperature 35°C; evaporator inlet-outlet water temperature 12-7°C, EN14511;
(2) Outdoor air temperature 7°C DB, 6°C WB; condenser inlet-outlet water temperature 40-45 °C, EN14511;
NOTE: THE ABOVE HERMETICALLY SEALED PRODUCTS CONTAIN FLUORINATED GREENHOUSE GASES GOVERNED BY THE KYOTO PROTOCOL;

BWHE - Accessories

BWHE MODEL
Hydraulic module options
Pump
Pump and tank
Fan Accessories
EC fans
Hydraulic module options
Filling unit w/pressure gauge (a)
Elem. antifreeze (basic v.)
Antifreeze element (v. w/pump)
Antifreeze element (v. w/pump and tank)
Water Filter (a)
Electrical accessories
Power supp. 230/1/50
Power supp. 400/3+N/50
RS485 serial board
Re-assembled user terminal (a)
Electric soft-starter (b)
Miscellaneous accessories
Rubber vibration dampers (a)
Coil anti-corrosion treatment
Condensate collection tray

(a): accessory supplied;
(b): not compatible with three-phase power supply models 61/81/101;

BWHE-Z Air-to-water heat pumps from 41 kW to 160 kW

Range of **air-to-water heat pumps** with axial fans and R410a gas designed and developed to provide optimum comfort and the highest levels of environmental well-being. Fully configurable with a wide range of models and accessories.

Compressors are hermetic scroll orbiting spiral compressors connected in tandem. They are equipped with thermal protection and an oil equalization line.

Condenser consisting of a coil with copper pipes and aluminium fins with a high exchange surface area. The base of each battery includes anti-ice control logic, which helps prevent ice from forming on the underside of the coil and therefore allows the unit to operate even in extremely cold temperatures and high humidity levels;

Helical fans directly coupled to 6-pin external rotor electric motor, IP 54 protection class with grille guard;

AlSI 316 stainless steel brazed plate heat exchanger on the utility side, insulated with a closed-cell foam shell. The exchanger is equipped with a temperature probe for frost protection and a vane flow switch supplied as standard.

The unit includes

- Fixed-setting automatic compressor switches,
- Fan fuses and auxiliary circuits,
- Numbered electrical cables in electrical panel,
- Flow switch or differential pressure switch fitted,
- Condensation control with speed controller for models Z32 to Z102,
- Inlet water control,
- RS485 serial connection with Modbus protocol,
- TCP-IP (Ethernet) serial connection with Modbus protocol (only for units with advanced control),
- TCP-IP port (Ethernet) with integrated web server (only for units with advanced control),
- Individual potential free contacts (compressors, fans and pumps when present),
- Coil protection mesh;
- Antifreeze element (v. without pumps).



BWHE-Z Air-to-water heat pumps from 41 kW to 160 kW

MODEL		Z32	Z42	Z52	Z62	Z72	Z82	Z92	Z102	Z122	Z132	Z152	Z162
Power supply	V/Ph/Hz	400/3+N/50											
Cooling capacity (1)	kW	39.8	44.7	52.3	58.6	65.8	80.1	90.3	98.0	113.9	122.7	141.5	153.1
EER (1)		2.81	2.63	2.63	2.77	2.66	2.95	2.80	2.58	2.67	2.51	2.57	2.37
Heating Capacity (2)	kW	42.1	47.1	55.4	63.2	70.1	83.7	94.7	104.2	121.7	132.8	153.2	168.4
COP (2)		3.08	3.00	3.06	3.16	3.18	3.19	3.18	3.12	3.10	3.06	3.13	3.08
no. compressors/circuits	No.	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1
Number of fans	No.	2	2	2	2	2	3	3	3	2	2	2	2
Air flow volume	m³/h	16,000	16,000	15,000	18,000	18,000	26,000	26,000	26,000	36,000	36,000	40,000	40,000
Useful pump pressure (optional)	kPa	145	135	162	133	148	168	177	165	172	160	157	184
Tank capacity (opt)	L	165	165	165	200	200	450	450	450	450	450	390	390
Dimensions (basic v.) WxDxH		1750x1000x1400			2200x1000x1740		3200x1100x1740			3200x1100x1880		3200x1100x2380	
Refrigerant	charge / tons CO ₂	R410A / 2088											
CODE		0008B401	0008B402	0008B403	0008B404	0008B405	0008B406	0008B407	0008B408	0008B409	0008B410	0008B411	0008B412

(1) Outdoor air temperature 35°C; evaporator inlet-outlet water temperature 12-7°C, EN14511;

(2) Outdoor air temperature 7°C DB, 6°C WB; condenser inlet-outlet water temperature 40-45 °C, EN14511;

NOTE: THE ABOVE HERMETICALLY SEALED PRODUCTS CONTAIN FLUORINATED GREENHOUSE GASES GOVERNED BY THE KYOTO PROTOCOL;

BWHE-Z - Accessories

MODEL
Hydraulic module accessories
Pump
Pump and tank
Antifreeze element (v. pump) (b)
Antifreeze element (v. pump and tank) (b)
Water side safety valve
Flow switch (a)
Accessory versions
Silenced version
Partial recovery
Cooling circuit accessories
Condens. control rpm regulator
Pressure gauges
Electronic thermostatic valve
Electrical accessories
Advanced control
Electron. soft starter
Auto switches (in place of fuses)
EC fans (c)
Remote user term. (basic control) (a)
Miscellaneous accessories
Rubber vibration dampers (a)
Anti-corrosion treated coil
Water filter (a)

(a): accessory supplied;

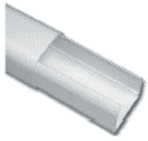
(b): not included on any recovery exchanger;

(c): includes condensation control with speed regulation;



CLIMATE ACCESSORIES

AIR CONDITIONER ACCESSORIES



Ducts



Insulated copper pipes



Condensate drain accessories



Supports for outdoor units



Air distribution



Modular control systems



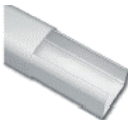










Refrigeration equipment






Climate cleaning products

Installation solutions - **DUCTS** and **ACCESSORIES**

 Monosplit **65x50 mm** and Multisplit **90x65mm**






	CODE	DESCRIPTION	PACKAGE
	6501001 6502001	Duct 65x50 Duct 90x65 - 2 m lengths -	24 M 16 M
	6501005 6502005	External bend 65x50 External bend 90x65	8 PCS 6 PCS
	6501004 6502004	Internal bend 65x50 Internal bend 90x65	8 PCS 6 PCS
	6501003 6502003	Flat bend 65x50 Flat bend 90x65	12 PCS 8 PCS
	6501006 6502006	T-fitting 65x50 T-fitting 90x65	4 PCS 3 PCS
	6501002 6502002	Standard end cap 65x50 Standard end cap 90x65	16 PCS 12 PCS
	6501007	End cap with rosette 65x50	16 PCS
	6501008	Cov Clamp 65x50	30 PCS
	6501009	Wall rosette 65x50	15 PCS
	6502008	Reduction connection fittings 90x65 - 65x50	6 PCS
	65010101	Flexible connection fitting 65x50	6 PCS

Installation solutions - **INSULATED COPPER PIPES**




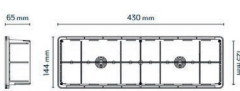
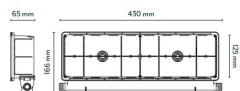
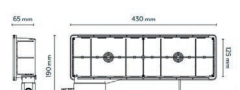



	CODE	DESCRIPTION	PACKAGE
	6303001S	Cooling copper pipe with SILVER (anti UV) Ø 6.35	50 M
	6303002S	Cooling copper pipe with SILVER (anti UV) Ø 9.52	50 M
	6303003S	Cooling copper pipe with SILVER (anti UV) Ø 12.70	50 M
	6303004S	Cooling copper pipe with SILVER (anti UV) Ø 15.80	25 M
	6303005S	Cooling copper pipe with SILVER (anti UV) Ø 19.05	25 M
	6303001	Cooling copper pipe smooth insulation Ø 6.35	50 M
	6303002	Cooling copper pipe smooth insulation Ø 9.52	50 M
	6303003	Cooling copper pipe smooth insulation Ø 12.70	50 M
	6303004	Cooling copper pipe smooth insulation Ø 15.80	25 M
	6303005	Cooling copper pipe smooth insulation Ø 19.05	30 M
	6302004	Cooling copper pipe corrug. insulation Ø 15.80	25 M

Ask for dedicated COPPER discount










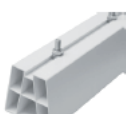


Installation solutions - **FITTINGS**

	CODE	DESCRIPTION	PACKAGE
	6702141	Copper cap 1/4 (Ø 6.35)	100 PCS
	6702142	Copper cap 3/8 (Ø 9.52)	100 PCS
	6702143	Copper cap 1/2 (Ø 12.7)	100 PCS
	6702144	Copper cap 5/8 (Ø 15.8)	100 PCS
	6702145	Copper cap 3/4 (Ø 19.05)	50 PCS
	6702151	Copper gasket 1/4 (Ø 6.35)	100 PCS
	6702152	Copper gasket 3/8 (Ø 9.52)	100 PCS
	6702153	Copper gasket 1/2 (Ø 12.7)	100 PCS
	6702154	Copper gasket 5/8 (Ø 15.8)	100 PCS
	6702155	Copper gasket 3/4 (Ø 19.05)	50 PCS
	6702001	Nozzle 1/4 (Ø 6.35)	20 PCS
	6702002	Nozzle 3/8 (Ø 9.52)	20 PCS
	6702003	Nozzle 1/2 (Ø 12.7)	20 PCS
	6702004	Nozzle 5/8 (Ø 15.8)	10 PCS
	6702005	Nozzle 3/4 (Ø 19.05)	10 PCS
	6702101	Two-sided coupling 1/4 (Ø 6.35)	20 PCS
	6702102	Two-sided coupling 3/8 (Ø 9.52)	20 PCS
	6702103	Two-sided coupling 1/2 (Ø 12.7)	20 PCS
	6702104	Two-sided coupling 5/8 (Ø 15.8)	10 PCS
	6702105	Two-sided coupling 3/4 (Ø 19.05)	10 PCS
	6702121	Reducing adaptor 3/8M-1/4F	20 PCS
	6702122	Reducing adaptor 1/2M-3/8F	20 PCS
	6702123	Reducing adaptor 5/8M-1/2F	10 PCS
	6702125	Reducing adaptor 3/4M-5/8F	10 PCS
	6702131	Increasing adaptor 1/4M-3/8F	20 PCS
	6702136	Increasing adaptor 3/8M-1/2F	10 PCS
	6702134	Increasing adaptor 1/2M-5/8F	10 PCS











Installation solutions - **CONDENSATE DRAIN ACCESSORIES**

	CODE	DESCRIPTION	PACKAGE
	6801001	Condensate drain pipe TSC160	50 M
	6801002	2-way fitting RC2 ø 15/18	50 M
	6801012	Condensate drain pump Slim box	1 PC
	1601081	2-way valve on/off *	1 PC
	1601082	3-way valve/4 connections on/off *	1 PC
	1601090	Recessed ready module without condensate drain	1 PC
	1601093	Recessed ready module with left and right condensate drain	1 PC
	1601095	Recessed ready module with integrated syphon (reversible)	1 PC
	6801005	Condensate drain syphon kit (anti-odour)	1 PC
	6801006	Condensate drip opener	1 PC
	6701001	Insulating tap cover Drain Stop	20 PAIRS

Installation solutions - **SUPPORTS FOR OUTDOOR UNITS**

	CODE	DESCRIPTION	PACKAGE
	6401057	Rubber base 250x150x h95 mm – max.100kg	1PC
	6401058	Rubber base 400x150x h95 mm – max.200kg	1PC
	6401059	Rubber base 600x150x h95 mm – max.500kg	1PC
	6401060	Rubber base 1000x150x h95 mm – max.500kg	1PC
	6401061	Rubber base 1200x150x h95 mm – max.500kg	1PC
		M10 galvanised hardware included	
	6401062	Rubber base 600x200x h150 mm – max.500kg	1PC
	6401063	Rubber base 1200x200x h150 mm – max.500kg	1PC
		M10 galvanised hardware included	
	6401052K	Brackets MX480 with stainless steel bolts and grommets Total load-bearing cap. 160 kg - 480x420x850 mm	1 PC
	6401053K	Brackets EME420 with galvanised bolts, level and grommets Total load-bearing cap. 120 kg - 420x400x800 mm	1 PC
	6401054	Bracket MA560 with galvanised bolts and grommets Total load-bearing cap. 160 kg - 600x600x1000 mm - Preamsembled	1 PC
	6401056	Superlong brackets SL640 with galvanised bolts and grommets Total load-bearing cap. 300 kg - supplied with adjustable extensions	1 PC
	6401023	Brackets SA400 pre-assembled with galvanised bolts and grommets Total load-bearing cap. 100 kg - 400x400 mm	4 PAIRS
	6401055	Roof brackets 15° (80 kg) - 30° (150 kg) adjustable with galvanised bolts and grommets - 520x850 mm	1 PC
	6401105	Telescopic floor support – (WxDxH) 450-730x450x250 mm with stainless steel bolts and grommets	1 PC
	6401106	Telescopic floor support – (WxDxH) 450-730x450x400 mm with stainless steel bolts and grommets	1 PC
	6401021	Floor support FSE350 - 80x80x350 mm Stiff PVC and galvanised hardware	4 PAIRS
	6401022	Floor support FSE450 - 80x80x450 mm Stiff PVC and galvanised hardware	4 PAIRS
	6701101	KIT 4 Adjustable floor supports (recommended for units VRV/VRF & chillers) Height from 9 to 14 cm - Load capacity up to 3000 kg	8 KITS
	6701102	Spanner for adjustable supports M/M 40x30	1 PC
	6701054	Rubber anti-vibration legs M/M 30x20	1 KIT
	6701055	Rubber anti-vibration legs M/M 40x40	1 KIT
	6701056	Rubber anti-vibration legs M 40x40	1 KIT


Installation solutions - **AIR DISTRIBUTION**

	CODE	DESCRIPTION	PACKAGE
	700100P1	ALUTERMOFLEX PL insulated flexible pipe ins. th. 25mm Ø125 mm	10 M
	700100P2	ALUTERMOFLEX PL insulated flexible pipe ins. th. 25mm Ø160 mm	10 M
	700100P3	ALUTERMOFLEX PL insulated flexible pipe ins. th. 25mm Ø200 mm	10 M
	7001004	ALUTERMOFLEX insulated flexible pipe ins. th. 25mm Ø250 mm	10 M
	7001007	FLEXAL flexible pipe Ø125 mm	10 M
	7001008	FLEXAL flexible pipe Ø160 mm	10 M
	7001009	FLEXAL flexible pipe Ø200 mm	10 M
	7001010	FLEXAL flexible pipe Ø250 mm	10 M
 	7001077	EBK painted steel diffuser - 595x595 mm for ceiling applications, colour white RAL 9010	1 PC
	7001092	PLENUM PBQ isolated for EBK diffuser H.250 mm Side connection Ø 200 mm	1 PC
 	7001078	EFC diffuser Ø 150 mm, anodised aluminium RAL 9016	1 PC
	7001079	EFC diffuser Ø 200 mm, anodised aluminium RAL 9016	1 PC
	7001090A	Polycarbonate ECL mounting collar Ø150 L100	1 PC
	7001091A	Polycarbonate ECL mounting collar Ø200 L100	1 PC
	7001088	Extraction valve EEA enamelled steel RAL 9010 - Ø 150 mm	1 PC
	7001089	Extraction valve EEA enamelled steel RAL 9010 - Ø 200 mm	1 PC
	7001022	Delivery grille with 2 rows of anodised aluminium louvres, including adjustment damper, adjustable louvres pitch 20 mm, screw holes 200x100 mm	1 PC
	7001023	300x100 mm	1 PC
	7001024	300x150 mm	1 PC
	7001076	400x150 mm	1 PC
	7001080	Linear delivery grille with 2 rows of anodised aluminium louvres, fixed horizontal 25°louvres and adjustable rear vert. louvres, includes calibra- tion damper, screw holes 300x100 mm	1 PC
	7001081	300x150 mm	1 PC
	7001082	400x150 mm	1 PC
	7001085	Return air intake grille anodised aluminium colour, horizontal louvres fixed 15°, with filter, screw holes 300x100 mm	1 PC
	7001086	300x150 mm	1 PC
	7001087	400x150 mm	1 PC




Installation solutions - AIR DISTRIBUTION

	CODE	DESCRIPTION	PACKAGE
		Return air intake grille in white RAL 9010, including subframe and filter, fixed 45° horizontal louvres with 25 mm pitch, magnetic closure for filter housing and replacement.	
	7001124	800x200 mm	1 PC
	7001125	1000x400 mm	1 PC
	7001126	1200x400 mm	1 PC
		Insulated galvanised sheet metal plenum	
	7001025	215 x h.115 x 250 Ø160	1 PC
	7001030	315 x h.115 x 250 Ø160	1 PC
	7001027	315 x h.165 x 250 Ø200	1 PC
	70010271	315 x h.165 x 250 Ø160	1 PC
	7001075	415 x h.165 x 250 Ø200	1 PC
	70010751	415 x h.165 x 250 Ø160	1 PC
	7001060	Conical reduction Ø200 - Ø160	1 PC
	7001054	Male fitting Ø160	1 PC
	7001055	Male fitting Ø200	1 PC
	7001065	Y-fitting Ø160	1 PC
	7001066	Y-fitting Ø200	1 PC
	7001067	Y-fitting Ø200 - Ø160	1 PC
	7001062	T-fitting Ø160	1 PC
	7001063	T-fitting Ø200	1 PC
	7001032	Aluminium adhesive tape	50 M
	7001035	Steel tube clamps (Ø 60-215mm)	10 PCS
	7001036	Steel tube clamps (Ø 60-270mm)	10 PCS




Installation solutions - **MODULAIR AIR DISTRIBUTION**

	CODE	DESCRIPTION	PACKAGE
	7002001	Modular electronic damper Ø152	1 PC
	7002002	Modular electronic damper Ø203	1 PC
	7002007	Modular damper motor	1PC
	7002017	Modular RJ45 damper motor (for WIRELESS system)	1PC

Installation solutions - **MODULAIR WIRELESS**

	CODE	DESCRIPTION	PACKAGE
	7002014	Wireless control unit with power supply unit, controls up to 5 dampers and 1 bypass damper; Remote ON-OFF control for air conditioners	1 PC
	7002013	Modulair wireless wall thermostat	1 PC
	7002015	By-pass motor for damper with RJ11 connection 6m cable	1 PC

Installation solutions - **MODULAIR WIRED**

	CODE	DESCRIPTION	PACKAGE
	7002003	Modulair wall thermostat with RJ11 connection 6m cable	1 PC
	7002003D	Recessed digital modulair thermostat with RJ11 connection 6m cable	1 PC
	7002004 7002005 7002006	Modular transformer 1 zone Modular transformer 2 zones Modular transformer 4 zones	1 PC 1 PC 1 PC

Installation solutions - **COOLING EQUIPMENT**

	CODE	DESCRIPTION	PACKAGE
	6903022	Universal gas reclaimer (suitable for all types of gas)	1 PC
	6903015	Universal gas reclaimer filter N.B. a filter must be purchased for each type of gas used	1 PC
	6901002	KIT R410A charging system and pressure gauge assembly	1 PC
	6901003	KIT R407C charging system and pressure gauge assembly	1 PC
	6902054	Non-refillable cylinder - R407C 750g	1 PC
	6903012	Electronic battery scales Up to 50 kg	1 PC
	6903013	Pump fitting 3/8 A 5/16	1 PC
	6903016	Charging fitting for R407C cylinder	1 PC
	6903017	Elbow fitting 1/4 F - 5/16 M	1 PC
	6903001	Pipe cutter 4-16 mm	1 PC
	69030030	ROTHENBERGER flaring tool (1/8 - 3/4)	1 PC
	69030040	Torque spanner sets 17-22-24-26-27-29	1 PC
	6903011	Universal leak detector	1 PC
	6903010	Pipe bending set case 3/8"-1/2"-5/8"-3/4"-7/8"	1 PC

Proper **Cleaning** of air-conditioning system

Bacticyd Spray - Medical and surgical device

Multi-purpose bactericidal disinfectant spray designed to meet the hygiene and disinfection requirements for professional and domestic use. Eliminates bacteria, including legionella, mould and fungi from surfaces, objects, walls and air conditioning system walls. Neutralises unpleasant odours caused by micro-organisms by acting specifically on the substrates responsible, disinfecting and refreshing the environment and the treated area with a pleasant, delicate scent.



PRODUCT		DISINFECTANT SPRAY
Quantity	No.	1
Code		6704014

Liquid sanitiser for air conditioners

liquid evaporator cleaner that cleans, cools and purifies the air conditioning system.



PRODUCT		LIQUID SANITISER FOR AIR CONDITIONERS
Quantity	No.	1
Code		6704013

Cleaner for indoor unit filters

Targeted product with rapid and effective action, designed to clean indoor unit filters. Removes dust, smog and mould deposited over time.



PRODUCT		FILTER CLEANER FOR INDOOR UNITS
Quantity	No.	1
Code		6704011
Price	Euros	16.30

Proper **Cleaning** of air-conditioning system

Concentrated cleaner for outdoor units

Targeted alkaline-based liquid treatment that thoroughly cleans and degreases dirt deposited in cracks in the finned coils of outdoor units.



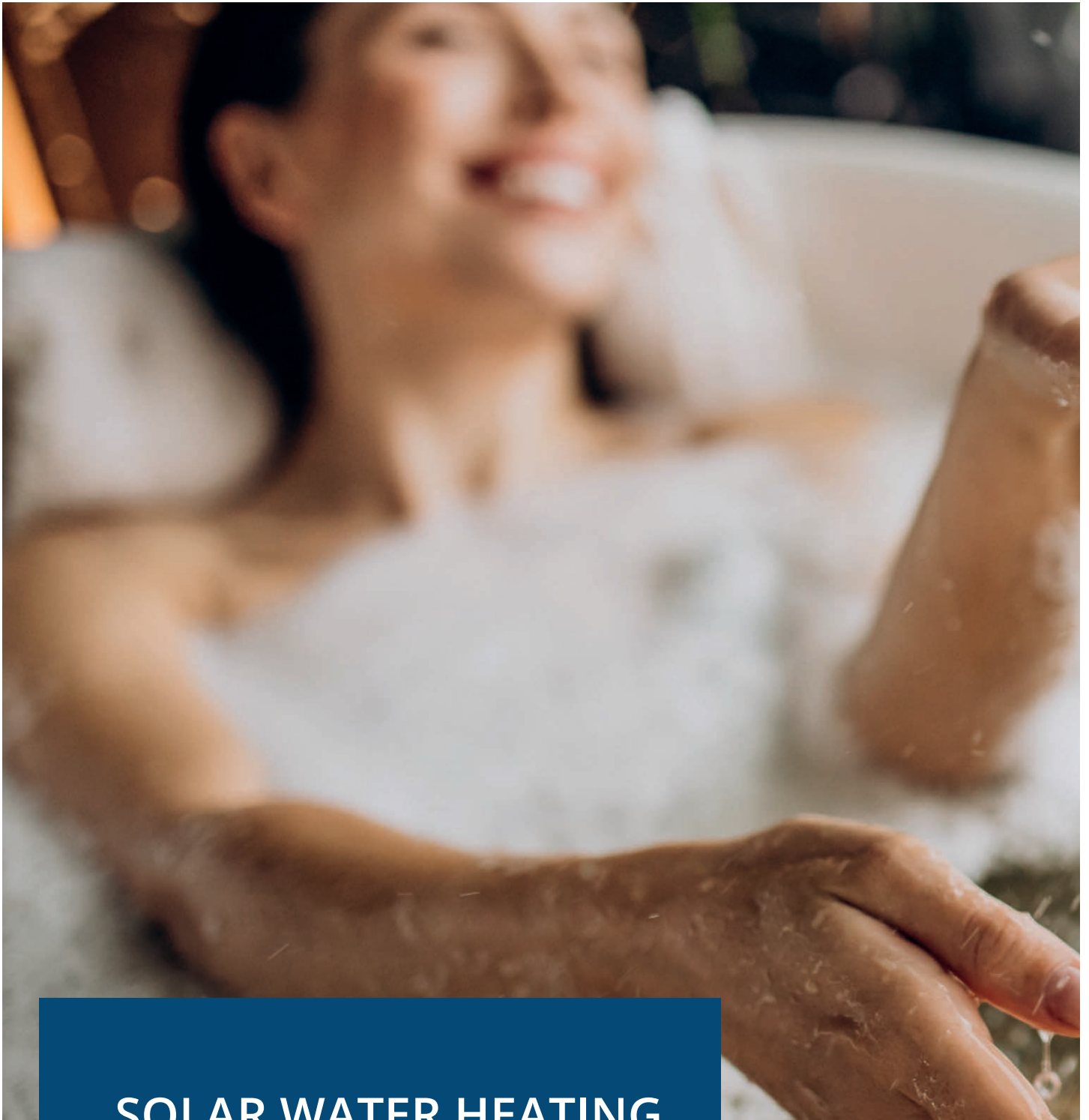
PRODUCT		CONCENTRATED CLEANER FOR OUTDOOR UNITS
Quantity	No.	1 (1 litre)
Code		6704010

Condensate treatment tablets

Prevent putrefaction and the formation of algae, moss, slime and mould that may clog and obstruct condensate drain pipes in air conditioners, in full compliance with ecosystem norms.



PRODUCT		LIQUID SANITISER FOR AIR CONDITIONERS
Quantity	No.	blister pack 18 pcs
Code		6704012



SOLAR WATER HEATING



Natural Circulation

COMPLETE SOLAR WATER HEATING KIT NATURAL CIRCULATION



Forced Circulation

COMPLETE SOLAR WATER HEATING KIT FORCED CIRCULATION



Forced circulation components

COLLECTORS, WATER HEATERS, ACCESSORIES

Solar Water Heating system

ECA Technology brings the heat of the sun into the home using highly efficient, renewable energy technology. The solar water heating system captures solar energy, stores it and uses it for **meet the requirements to produce domestic hot water and heating** that is environmentally friendly and cost-effective.

The comfort that is derived from solar water heating systems can be measured in terms of the benefits for the environment and in a reduction in utility bills!

The system can be designed using **natural circulation** by installing a water heater just above the solar panel which stores the heat collected by the fluid circulating in the circuit in a natural manner.

If larger quantities of water are required, or positioning a tank above the panels is not possible, a **forced circulation** system can be designed to meet the needs of the customer, which transfers the collected heat to a domestic water tank via a heat exchanger.

Advantages

- Energy and cost savings of at least 50%;
- Can be integrated into existing or new systems;
- Increases the energy class of the building;
- Reduces CO2 emissions.



Natural Circulation

Natural circulation systems are the simplest applications of solar systems for the production of domestic hot water. In these systems, the water heater is installed close to the collector in its highest position. They are supplied in complete kits with a galvanised steel support structure, in models that suit a variety of requirements.

A Kit includes:

- Selective solar collector with prismatic tempered glass,
- Enamelled glass tank at 850°C,
- Pipeline cover casing,
- Liquid circulation pipeline kit and connection accessories,
- Glycol tank,
- Galvanised steel profiles to mount the frame,
- Hot-dip galvanised steel support structure,
- Safety valves,
- 2 kW round electric element with thermostat.



Solar water heating natural circulation

TECHNICAL DATA

MODEL		ESK160SR	ESK160SR	ESK200SR	ESK300SR
Collector	mod.	ESPS210	ESPS260		ESPS210
Quantity	No.	1	1	1	2
Dimensions	HxWxD	2050x1012x90	2050x1279x90		2050x1012x90 (x2)
Surface area	m²	2.08	2.62		2.08 (x2)
Open surface	m²	1.80	2.33		1.80 (x2)
Collector weight	kg	36	45		36 (x2)
Tank	mod.	EBN160R	EBN160R	EBN200R	EBN300R
Nominal capacity	l	160	160	200	300
Dimensions	Ø / L	530x1320	530x1320	570x1320	570x2050
Weight	kg	59	59	65	110
Energy class		C	C	C	C
Dissipation		68 W	68 W	65 W	87 W
Support structure (Weight)	kg	24	24	24	32
Code		1901010	1901011	1901012	1901014

Forced Circulation

Forced circulation systems are modular systems that can be installed in different positions with respect to solar collectors.

These systems include a hydraulic pump and electronic control unit, which allow complete control of the system.

A Kit includes:

- selective solar collector with prismatic tempered glass,
- enamelled steel water heater,
- hydraulic unit including pump, deaerator, and valve
- control panel,
- pipeline cover casing,
- liquid circulation fitting kit and connection accessories,
- glycol tank,
- galvanised steel profiles to mount the frame,
- hot-dip galvanised steel support structure,
- safety valves.



EPS collector and EBF water heater

TECHNICAL DATA

MODEL		ESM151S	ESM1/201S	ESM2/201S	ESM1/301S	ESM2/301S	ESM1/501S	ESM2/501S
Collector	mod.	EPS260	EPS210		EPS260		EPS210	
Quantity	No.	1	2		2		3	
Dimensions	HxWxD	2050x1279x90	2050x1012x90 (x2)		2050x1279x90 (x2)		2050x1012x90 (x3)	
Surface area	m ²	2.62	2.08 (x2)		2.62 (x2)		2.08 (x3)	
Open surface	m ²	2.33	1.80 (x2)		2.33 (x2)		2.33 (x3)	
Collector weight	kg	45	36 (x2)		45 (x2)		36 (x3)	
Tank	mod.	EBF150/1S	EBF200/1S	EBF200/2S	EBF300/1S	EBF300/2S	EBF500/1S	EBF500/2S
Nominal capacity	l	150	200	200	300	300	500	500
Dimensions	Ø / L	603x1050	603x1400	603x1400	603x1930	603x1930	730x1970	730x1970
Weight	kg	64	85	93	108	128	165	182
Energy class		C	C	C	E	E	E	E
Dissipation	W	76	85	85	136 W	136 W	169 W	169 W
Code		1902011	1902012	1902013	1902014	1902015	1902018	1902019

N.B. Estimates for forced circulation kits with AISI 316L stainless steel tanks are available

Forced Circulation Components



Support for collectors



MTDC



Hydraulic Unit

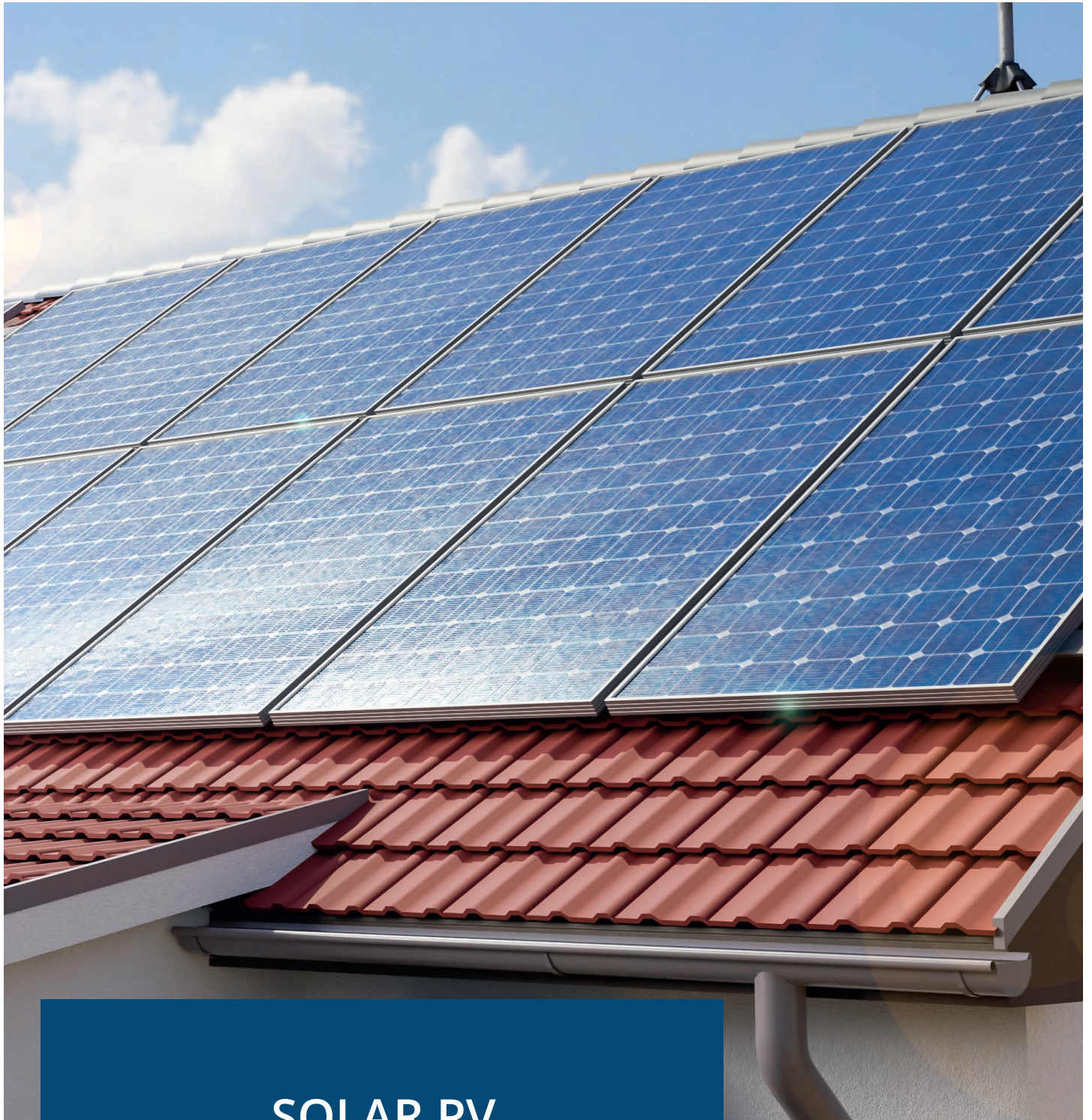


Expansion tank

COLLECTORS	CODE
Selective collector ESPS210 steel frame	1901100
Selective collector ESPS260 steel frame	1901101

ENAMELLED STEEL WATER HEATERS	CODE
EBF150/1S Water Heater 1 coil	1902201
EBF200/1S Water Heater 1 coil	1902202
EBF200/2S Water Heater 2 coil	1902203
EBF300/1S Water Heater 1 coil	1902204
EBF300/2S Water Heater 2 coil	1902205
EBF420/1S Water Heater 1 coil	1902206
EBF420/2S Water Heater 2 coil	1902207
EBF500/1S Water Heater 1 coil	1902208
EBF500/2S Water Heater 2 coil	1902209

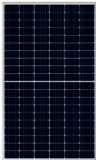
ACCESSORIES	CODE
Hydraulic unit including pump, deaerator, valve for MTDC	1902300
Control panel mod. MTDC	1902103
Expansion tank 18L	1902302
Expansion tank connection pipe	1902601
Expansion tank support base	1902602
Glycol Tank 10L	1901502
Collector support (for models with 1 collector)	1902500
Collector support (for models with 2 collectors)	1902501
Collector support (for models with 3 collectors)	1902502
Hydraulic connection accessories (for models with 1/2 collectors)	1902401
Hydraulic connection accessories (for models with 3 collectors)	1902402
3 kW electric element with thermostat	1903000



SOLAR PV

Entrusting power generation to renewable energy sources while de-carbonising the electricity system is a goal that ECA Technology fully believes in and is continuing to promote. This is why it guarantees and encourages installation of customised photovoltaic systems for all building types, whether they be private homes, public buildings or production plants.

ECA Technology panels feature a unique combination of components that provide high performance and ease in installation, ensuring efficiency and high long-term returns. To optimise the efficiency of a photovoltaic system, energy can be stored with renewable sources using storage systems. This system allows energy to be stored and used even at times when there is less sunlight exposure, in the evenings or on rainy days, which will ensure reduced dependence on electricity providers.



Monocrystalline panels with half-cut technology

POWER 335Wp - 370Wp - 450Wp



Fronius inverters

FRONIUS PRIMO - SYMO - ECO - GEN 24 PLUS



SolarEdge inverters

SOLAREDGE SINGLE-PHASE - THREE-PHASE - SYNERGY



Kostal inverters

SINGLE-PHASE - THREE-PHASE - HYBRID



Coils

BYD PREMIUM HVS and HVS BATTERIES - LG CHEM RESU



EnSolar inverters and batteries

ON-GRID SINGLE-PHASE - THREE-PHASE - HYBRID

335Wp Monocrystalline Panels with **half-cut** technology

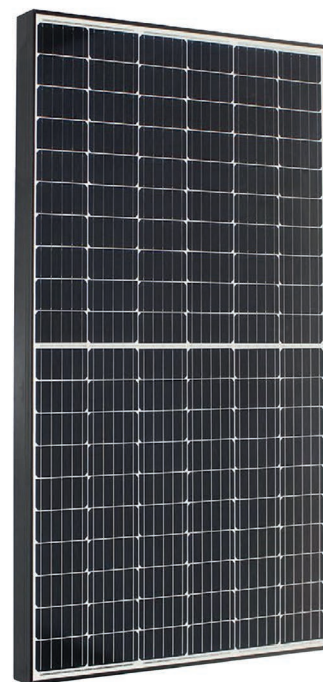
The photovoltaic panels provided by ECA Technology are among the best on the market and provide high efficiency, quality and durability.

Robust, durable design using high-quality materials: Low iron tempered glass with anti-reflection treatment, 3.2 mm thick black frame and hollow chamber frame.

The two independent circuits in the **new HALF-CUT technology** allow for less energy loss in the event of shading and/or dirt accumulation.

The Module

- 120 highest grade monocrystalline half-cut cells with 5 Busbars;
- Power tolerance 0 / +3%;
- Increased module power;
- Anodised aluminium frame, hollow chamber frame;
- Glass thickness 3.2 mm;
- Product warranty: 15 years
- Linear performance guarantee:
 - 12 years: 90%
 - 25 years: 80%
- IEC 61215 / IEC 61730 Certification.
- Reaction to fire class 1



335Wp monocrystalline panel

TECHNICAL DATA

MODEL		335 MS-HC
Nominal power PMPP	Wp	335
Power Tolerance		-0 / +3%
Nominal voltage VMPP	V	34.0
Nominal current IMPP	A	9.86
No-load voltage VOC	V	41.5
Short-circuit current ISC	A	10.73
Module efficiency	%	19.9
NOCT	°C	45
Maximum system voltage	V	1500
Temperature coefficient ISC	%/K	+0.048
Temperature coefficient VOC	%/K	-0.28
Temperature coefficient PMPP	%/K	-0.36
Maximum reverse current intensity IR	A	20
Dimensions HxWxD	mm	1684x1002x40
Weight	kg	19
Max snow load	Pa/m²	5400

Standard Test Conditions (STC): Radiation intensity 1000 W/m²; spectral distribution AM 1.5; cell temperature 25± 2°C.

370Wp Monocrystalline Panels with **half-cut** technology

The photovoltaic panels provided by ECA Technology are among the best on the market and provide high efficiency, quality and durability.

Robust, durable design using high-quality materials: Low iron tempered glass with anti-reflection treatment, 3.2 mm thick black frame and hollow chamber frame.

The two independent circuits in the **new HALF-CUT technology** allow for less energy loss in the event of shading and/or dirt accumulation.

The Module

- 120 highest grade monocrystalline half-cut cells with 6 Busbars;
- Power tolerance 0 /+5W;
- Robust PID resistance ensured by optimising the solar cell process and careful selection of modules;
- Higher energy yield at lower operating temperature;
- Reduced risk of hot spots with optimised electrical design and lower operating current;
- Anodised aluminium frame, hollow chamber frame;
- Glass thickness 3.2 mm;
- Product warranty: 12 years;
- Slowest possible power degradation using LOW LID MONO PERC cells: first year <2%, 0.55% year 2-25
- Certification IEC 61215 / IEC 61730;
- Reaction to fire class 1.



370Wp monocrystalline panel

TECHNICAL DATA

MODEL		370M
Nominal power PMPP	Wp	370
Power Tolerance		0 / +5W
Nominal voltage VMPP	V	34.4
Nominal current IMPP	A	10.76
No-load voltage VOC	V	40.9
Short-circuit current ISC	A	11.52
Module efficiency	%	20.3
NOCT	°C	45 + 2°C
Maximum system voltage	V	1500
Temperature coefficient ISC	%/K	+0.048
Temperature coefficient VOC	%/K	-0.270
Temperature coefficient PMPP	%/K	-0.350
Dimensions HxWxD	mm	1755x1038x35
Weight	kg	19.5
Max snow load	Pa/m²	5400

Standard Test Conditions (STC): Radiation intensity 1000 W/m²; spectral distribution AM 1.5; cell temperature 25± 2°C.

450Wp Monocrystalline Panels with **half-cut** technology

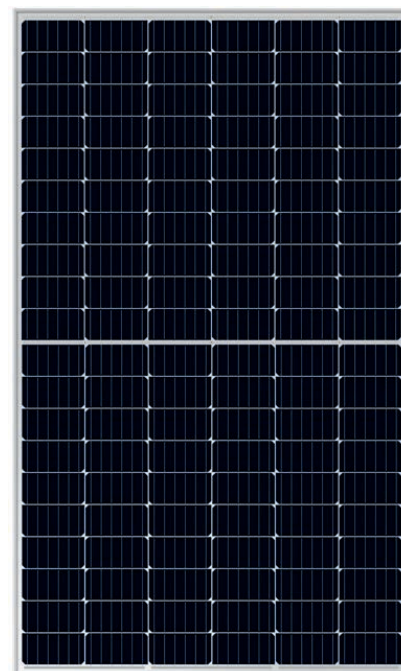
The photovoltaic panels provided by ECA Technology are among the best on the market and provide high efficiency, quality and durability.

Robust, durable design using high-quality materials: 3.2 mm thick low iron tempered glass with anti-reflection treatment, anodised aluminium frame and hollow chamber frame.

The two independent circuits in the **new HALF-CUT technology** allow for less energy loss in the event of shading and/or dirt accumulation.

The Module

- 144 highest grade monocrystalline half-cut cells with 6 Busbars;
- Power tolerance 0 / +5W;
- Robust PID resistance ensured by optimising the solar cell process and careful selection of modules;
- Higher energy yield at lower operating temperature
- Reduced risk of hot spots with optimised electrical design and lower operating current;
- Anodised aluminium frame, hollow chamber frame;
- Glass thickness 3.2 mm;
- Product warranty: 12 years;
- Slowest possible power degradation using LOW LID MONO PERC cells: first year <2%, 0.55% year 2-25;
- Certification IEC 61215 / IEC 61730;
- Reaction to fire class 1.



450Wp monocrystalline panel

TECHNICAL DATA

MODEL		450M
Nominal power PMPP	Wp	450
Power Tolerance		0 / +5W
Nominal voltage VMPP	V	41.5
Nominal current IMPP	A	10.85
No-load voltage VOC	V	49.3
Short-circuit current ISC	A	11.60
Module efficiency	%	20.7
NOCT	°C	45 + 2°C
Maximum system voltage	V	1500
Temperature coefficient ISC	%/K	+0.048
Temperature coefficient VOC	%/K	-0.270
Temperature coefficient PMPP	%/K	-0.350
Dimensions HxWxD	mm	2094x1038x35
Weight	kg	23.5
Max snow load	Pa/m ²	5400

Standard Test Conditions (STC): Radiation intensity 1000 W/m²; spectral distribution AM 1.5; cell temperature 25± 2°C.

FRONIUS Inverters

Fronius PRIMO single-phase inverter

Available in power classes **from 3.0 to 8.2 kW**.

The ideal single-phase inverter for domestic photovoltaic systems, that includes excellent configuration flexibility.

Fronius Primo makes installation and maintenance easy and can be used for both new and existing systems. The communication package with WLAN and energy management is integrated as standard.



Fronius Primo

Fronius SYMO three-phase inverter

Available in power classes **from 3.0 to 20.0 kW**.

Fronius Symo is a transformer-free, three-phase inverter suitable for installations of any size, owing to its maximum voltage of 1,000V, wide operating range and dual MPPT.

The adaptive Dynamic Peak Manager algorithm allows for maximum system output, even with localised shading. Connection to the Internet via WLAN or Ethernet and simple integration of third-party components make Fronius Symo one of the most communicative inverters on the market.



Fronius Symo

Fronius ECO three-phase inverter

Available in power classes **25.0 and 27.0 kW**.

The Fronius Eco three-phase inverter perfectly meets the requirements of large-scale systems. The low weight and SnapINverter mounting system allow the three-phase unit to be installed quickly and easily both indoors and outdoors. In addition, integrated string fuse holders on all pins and optional DC fuse eliminate the need for string combination boxes.



Fronius ECO

Fronius GEN 24 PLUS hybrid inverter

Fronius **Primo GEN24 Plus**, single-phase in power classes ranging from **3.0 to 6.0 kW**, and Fronius **Symo GEN24 Plus**, three-phase in power classes ranging from **6.0 to 10.0 kW**.

Owing to the variety of integrated functions such as energy management options, WLAN connection as standard, Ethernet interface and the very simple integration of third-party components, these appliances can easily be adapted to different customer requirements. Extensive modular nature of the storage function in combination with BYD high-voltage batteries.



Fronius GEN24PLUS Primo

Fronius TAURO three-phase inverter

The Fronius Tauro three-phase inverter, available in **50 and 100 kW** power classes, is the ideal solution for commercial installations owing to its flexible configurability and low installation costs. In addition, the innovative mounting and mechanical ventilation systems allow the Fronius Tauro to maintain a high energy output, even when exposed to direct sunlight.

Inverter-mounted arresters do not require integration of additional components and the AC-side chain connection reduces the number of AC panels.



Fronius TAURO

Product warranty: 2 years (unless 'end-user registration' is carried out at www.solarweb.com for free extension to 5 or 7 years)

SOLAREEDGE Inverters

Single-phase inverter

Solaredge HD-Wave single-phase inverters in power classes from **2.2 to 6.0 kW**

- Designed for joint operation with SolarEdge power optimiser, for optimisation and monitoring at the individual module level.
- Compatible with StorEdge interface for storage system integration.
- Oversizing of up to 155% is possible owing to innovative technology and careful component design.
- Simplicity of system design guaranteed by higher maximum power per string.
- Greater reliability due to less heat dissipation
- Quick and easy commissioning directly using a smartphone with the SetApp application.



SolarEdge Inverter

Single-phase inverter

Hybrid inverter that connects directly to LG CHEM RESU high-voltage batteries. With fewer components for simpler installations, the StorEdge inverter with HD-Wave technology manages the production and consumption of photovoltaic energy, battery power and Smart Energy devices.



SolarEdge Inverter

Three-phase inverter

- Designed for joint operation with SolarEdge power optimiser, for optimisation and monitoring at the individual module level.
- Continuous voltage operation to allow for longer strings.
- Option of interfacing with intelligent energy management and charge control systems.
- Quick and easy commissioning directly using a smartphone with the SetApp application



SolarEdge Inverter

Synergy three-phase inverter

The inverter consists of small, lightweight, easy-to-transport primary and secondary units.

- Independent operation of each unit for easy maintenance and increased system availability.

- sizes available: **50kW, 55kW and 82.8kW**, as well as **66.6kW and 100kW for medium voltage connections**.
- Integrated DC-side safety device with DC circuit breaker; optional DC-side overvoltage protection and fuses – eliminates the need for external DC circuit breakers.
- Dual connection with integrated RS485 boards



SolarEdge Synergy Inverter

Product warranty: 12 years (inverters), 10 years (Storedge interface) 25 years (optimisers),

KOSTAL PIKO Inverters

Kostal Piko MP Plus single-phase inverter

The PIKO MP plus is the ideal single-phase hybrid inverter for small systems and is available in power classes from **1.5 to 5 kW**. May also be retrofitted with BYD high-voltage batteries

- Ideal for revamping due to wide MPPT voltage range.
- Integrated DC disconnect and graphic display for easy set-up configuration.
- Free monitoring of the PV system via KOSTAL Solar Portal, KOSTAL Solar App and integrated Webserver.



Kostal Piko MP Plus

Kostal Piko three-phase inverter

Three-phase inverter, available in power classes from **10 to 20 kW**, with wide input current and voltage ranges, as well as flexible string configuration. Independent MPPT trackers ensure optimal system management at all times with almost any combination. The PIKO is ideal for very large roofs and commercial buildings.



Kostal Piko

Plenticore Plus hybrid three-phase inverter

PLENTICORE plus is a three-phase hybrid inverter with 3 MPPT trackers and, with its power classes of **3 to 10 kW**, it can be used flexibly depending on requirements.

- Hybrid inverter with on-demand battery input using one of the 3 independent MPPTs.
- Ideal for revamping due to high configuration flexibility.
- Extended modular nature of storage function, owing to five power sizes and five sizes of storage capacity (in combination with BYD high-voltage batteries).
- Smart communication ensured by monitoring on a single portal/web app.



Plenticore Plus

Kostal Piko CI inverter

The new PIKO CI (Commercial Inverter) inverters in power classes **30, 50 and 60 kW** provide a variety of options suitable for the needs of large photovoltaic systems.

- Optimised generator design using system voltage up to 1100 V.
- Simple and cost-effective DC installation with no combiner boxes.
- Disconnection of the generator on site via integrated DC disconnect.
- Flexible generator configuration thanks to up to 50% over-assignment (DC to AC).
- Integrated KOSTAL Smart AC Switch to replace external coordinated switch.
- Simple communication (daisy chain) via double LAN interface (RJ45) with integrated switch.
- Proven communication via integrated RS485 bus as standard.
- System information available at all times using the integrated data logger.



Piko CI

Batteries for Fronius, SolarEdge and Kostal Inverters

BYD Lithium Iron Phosphate (LFP) batteries without cobalt are **compatible with single-phase and three-phase inverters**.

- Backup functions in the event of emergency and off-grid operation.
- Optimum levels of efficiency owing to real high-voltage series connection.
- Plug-in connection with no internal cabling allows greater flexibility and ease of use.
- Two versions are available to meet all requirements.

Product warranty 10 years

BYD Battery-Box Premium HVM

High-voltage storage system consisting of **3 to 8 modules**, 2.76 kWh HVM battery connected in series to obtain a **usable capacity from 8.3 to 22.1 kWh**. Parallel connection of up to 3 identical towers allows a maximum capacity of 66.2 kWh.

BYD Battery-Box Premium HVS

High-voltage storage system consisting of **2 to 5 modules**, 2.56 kWh HVS battery connected in series to obtain a **usable capacity from 5.1 a 12.8 kWh**. Parallel connection of up to 3 identical towers allows a maximum capacity of 38.4 kWh.



Battery BID



ENTRADE Inverters

ON-GRID Inverter

High-efficiency inverter with no transformer, no cooling fans, with DC disconnect as standard, and an IP65 die-cast aluminium cabinet. Remote monitoring as standard via WiFi and free APP for iOS® and Android™ smartphones. Available in Single-phase **3-5-6 kW**, Three-phase **5-10-16 kW** and Three-phase **20-25-30 kW**

Product warranty: 10 years



Single-phase
3-5-6 kW

ON-GRID HYBRID Inverter

Single-phase hybrid inverter with Lithium-LFP or Lead-LPS storage management, equipped as standard with emergency/UPS function, owing to a second backup output of up to 3 kW for privileged loads, and with Anti-Emission Locking function that allows maximising self-consumption without feeding excess energy into the grid. Monitoring of instantaneous consumption in the home via Energy Meter, supplied as standard.

Available power classes: 3.6 - 5 kW

Product warranty: 5 years



Entrade ONGRID HYBRID

Batteries for ENTRADE Inverters

BAT-US2000 Battery

Lithium-LFP battery with 2.4kWh nominal, 6000 cycles.

Product warranty 10 years



BAT-US2000

BAT-SPHE4850 Battery

Lithium-LFP battery with 2.4kWh nominal, 5000 cycles, 5-year warranty, stackable box up to 4 units.



BAT-SPHE4850

BAT-LPS48-110 Battery

Pb AGM VRLA LPS storage kit with 4.8kWh nominal, 1200 cycles.

Product warranty: 3 years



BAT-LPS48-110

Battery Holder Cabinets

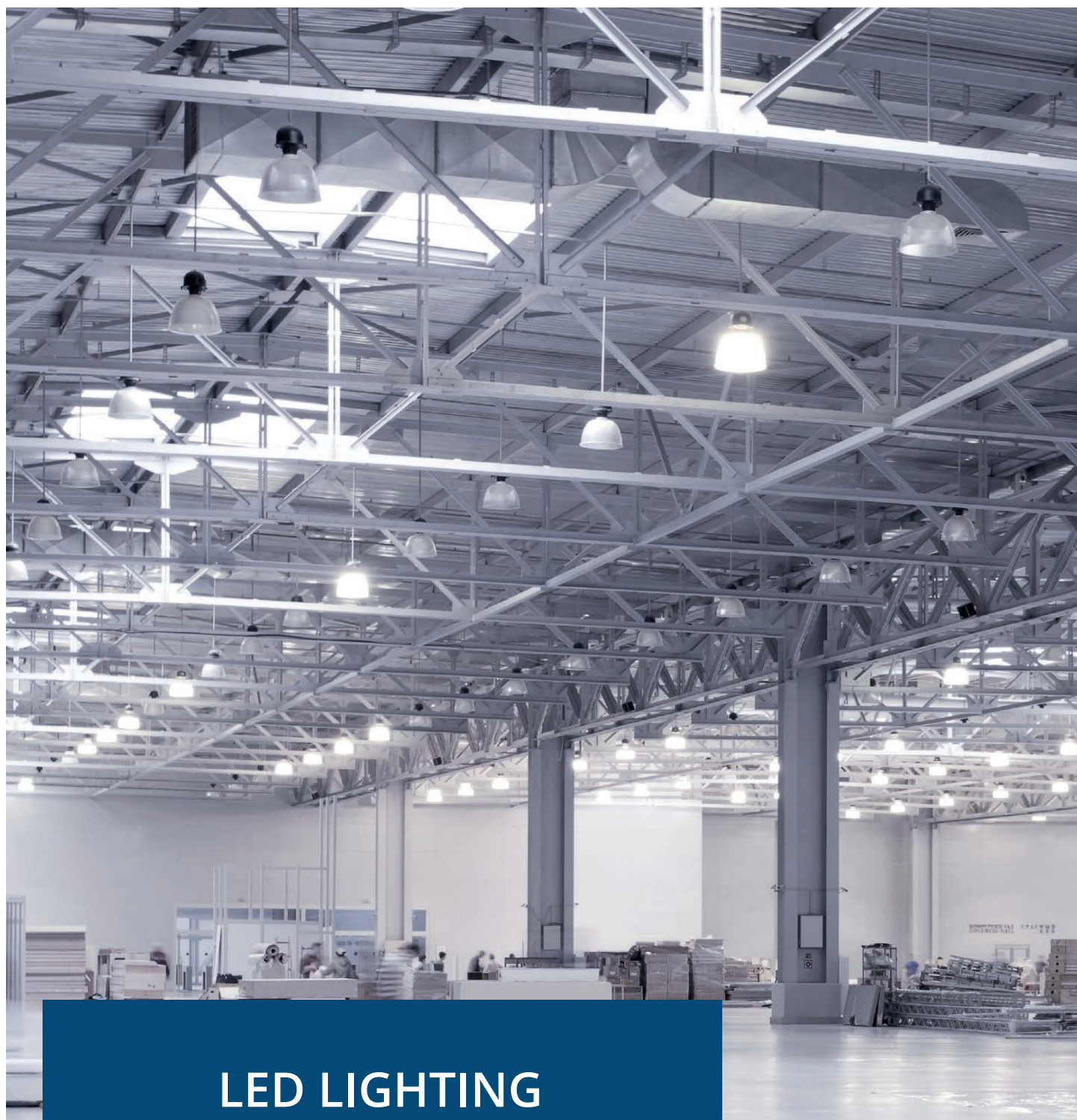
Battery cabinets compatible with BAT-US2000 and BAT-LPS48-110 models.



For BAT-US2000
and BAT-LPS48-110



For BAT-US2000



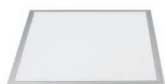
LED LIGHTING TECHNOLOGY

LED LIGHTING TECHNOLOGY

ECA Technology Lighting System is a **range of LED products** for the lighting of commercial and industrial environments with high quality standards able to meet the needs of any new building or building to be renovated.

Refurbish rooms by opting for lighting that enhances and improves spaces using **relamping** has been gaining ground and becoming a priority. ECA Technology Lighting System products address this requirement by providing the right lighting design that not only creates a comfortable working environment throughout the day, but also significantly reduces energy and maintenance costs in the company.

Relamping research and the design of LED systems using ECA Technology Lighting System products are suitable activities for: Industrial production areas; Shops, supermarkets, offices; Healthcare facilities; Hotels, restaurants, bars and accommodation; Public spaces and outdoors.



Panel light

SQUARE AND RECTANGULAR



LED tubes

G SERIES



Ceiling lights

WATERPROOF, RECESSED, AND LED TUBE CEILING LIGHTS



Bell lights

SERIE P5



Outdoor lights

P SERIES, CLA SERIES



Streetlights

CLP SERIES LED STREETLIGHTS

Panel Light e Tubes

Panel light

Ideal for offices, shops, hallways, public buildings, schools.



MODEL	PANEL LIGHT 600	PANEL LIGHT 1200
Power supply	230 VAC/1ph/50Hz*	230 VAC/1ph/50Hz*
Power consumption	40W /54W	40W /54W
Colour temperature	4000K-6000K	4000K-6000K
Luminous flux	3400-4590 lm	3400-4590 lm
Beam angle	120°	120°
CRI	>80 Ra	>80 Ra
Dimmable	yes (optional)	yes (optional)
Dimensions	595 x 595 x 11.5 h mm	1195 x 295 x 11.5 h mm
Operating temperature	-20°C - 40°C	-20°C - 40°C
Level of protection	IP20	IP20
Insulation class	II	II

*with external power supply

Tubes

Ideal for offices, shops, supermarkets, hallways, public buildings, schools, garages.



MODEL	TUBI T8AS	TUBI T8LS
Power supply	200-240VAC/1ph/50-60Hz*	200-240VAC/1ph/50-60Hz*
Power consumption	10W / 20W / 24W	25W / 30W
Colour temperature	4000-4500K - 5500-6500K	3000-3500K - 4000-4500K - 5500-6500K
Luminous flux	1050-1100 lm / 2100-2200 lm / 2400-2500 lm	2550-2700 lm / 2500-2700 lm / 3050-3300 lm
Beam angle	180°	180°
CRI	>80 Ra	>78 Ra
Dimmable	no	no
Dimensions	ø 26 mm L: 603/1211/1511 mm	ø 26 mm L: 1211/1511 mm
Weight	0.28 kg / 0.46 kg / 0.52 kg	0.46 kg / 0.52 kg
Operating temperature	-20°C - 40°C	-20°C - 40°C
Level of protection	IP20	IP20
Insulation class	II	II
Energy class	A +	A +

*with external power supply

Ceiling lights

Waterproof ceiling lights

Ideal for warehouses, production sites, public buildings, garages, sports facilities.



MODEL	WATERPROOF TUBULAR CEILING LIGHTS
Power supply	200-240VAC/1ph/50-60Hz
Connection	G13
Tube type	T8 L: 600 / 1200 / 1500 mm
No. of Tubes	1 - 2
Dimensions No. 1 Tube	662x95x111h mm / 1272x95x111h mm / 1572x95x111h mm
Weight	1.38kg / 2.04kg / 2.80kg
Dimensions No. 2 Tube	662x145x111h mm / 1272x145x111h mm / 1572x145x111h mm
Weight	1.70kg / 3.20kg / 4.20kg
Operating temperature	-25°C - 40°C
Level of protection	IP66 - IK08
Insulation class	I

Recessed ceiling lights

Ideal for offices, shops, hallways, public buildings, schools.



MODEL	RECESSED CEILING LIGHTS
Power supply	200-240VAC/1ph/50-60Hz
Connection	G13
Tube type	T8 L: 600
No. of Tubes	4
Dimensions (WxDxH)	595x595x90 mm
Weight	4.56 kg
Operating temperature	-25°C - 40°C
Level of protection	IP20
Insulation class	I

LED Ceiling Lights

Ideal for offices, shops, hallways, public buildings, schools



MODEL	CEILING LIGHT 662mm	CEILING LIGHT 1272mm	CEILING LIGHT 1572mm
Power supply	220/240V/60Hz	220/240V/60Hz	220/240V/60Hz
Power consumption	12W / 24W	24W / 48W	30W / 60W
Colour temperature	4000K	4000K	4000K
Luminous flux	1700 lm / 3400 lm	3400 lm / 6800 lm	4250 lm / 8500 lm
Beam angle	120°	120°	120°
CRI	>80 Ra	>80 Ra	>80 Ra
Dimmable	on request	on request	on request
Dimensions (WxHxD)	662x95x111 / 662x145x111	1272x95x111 / 1272x145x111	1572x95x111 / 1572x145x111
Weight	1.02 kg / 1.24 kg	1.68 kg / 2.17 kg	2.00 kg / 2.58 kg
Operating temperature	-20°C - 40°C	-20°C - 40°C	-20°C - 40°C
Level of protection	IP66	IP66	IP66
Insulation class	II	II	II

Bell and outdoor lights

Bell lights

Ideal for warehouses, production sites, shops.



MODEL	BELL 50 - 100	BELL 150 - 200
Power supply	230 VAC/1ph/50Hz*	230 VAC/1ph/50Hz*
Power consumption	50W /100W	150W /200W
Colour temperature	4000K-4500K / 5000-6500K	4000K-4500K / 5000-6500K
Luminous flux	4600 lm - 4750 lm / 8900 lm - 9200 lm	13800 lm - 14250 lm / 17800 lm - 18400 lm
Beam angle	45° / 90°	30° / 100°
CRI	≥ 70 Ra	≥ 70 Ra
Dimmable	no	no
Dimensions	ø160x275h mm / ø160x325h mm	ø240x310h mm / ø240x335h mm
Weight	3.3kg / 4.4kg	5.5kg / 6.6kg
Operating temperature	-40°C - 45°C	-40°C - 45°C
Level of protection	IP54	IP54
Insulation class	I	I

*with external power supply

Outdoor lights

Ideal for architectural lighting, art lighting.



MODEL	FARI 50 - 70	FARI 100 - 150 - 200
Power supply	230 VAC/1ph/50Hz*	230 VAC/1ph/50Hz*
Power consumption	50W /70W	100W / 150W / 200W
Colour temperature	4000-4500K / 5000-6500K	4000-4500K / 5000-6500K
Luminous flux	4450 lm - 4700 lm / 5800 lm - 6100 lm	7450 lm - 7850 lm / 12700 lm - 13400 lm / 17000 lm - 17900 lm
Beam angle	105°	105°
CRI	≥ 70 Ra	≥ 70 Ra
Dimmable	no	no
Dimensions (WxDxH)	200x98x253mm / 250x122x291 mm	250x192x309 mm / 310x187x375mm / 340x192x400mm
Weight	1.60 kg / 3.10 kg	4.30kg / 6.80kg / 8.34kg
Operating temperature	-30°C - 50°C	-30°C - 50°C
Level of protection	IP65	IP65
Insulation class	I	I

*with external power supply

Outdoor floodlights and street lighting

CLA outdoor floodlights

Ideal for architectural lighting, art lighting.



MODEL	AS: ASYMMETRICAL LENS	SM: NO LENS
Power supply	230 VAC/1ph/50Hz*	230 VAC/1ph/50Hz*
Power consumption	128W / 160W / 192W / 224W / 256W / 288W / 320W	128W / 160W / 192W / 224W / 256W / 288W / 320W
Colour temperature	4000K	4000K
Luminous flux	16600 lm / 2080 lm / 24900 lm / 29100 lm / 33300 lm / 37450 lm / 41600 lm	17200 lm / 21500 lm / 25800 lm / 30100 lm / 34400 lm / 38700 lm / 43000 lm
Beam angle	50°	120°
CRI	≥ 70 Ra	≥ 70 Ra
Dimmable	no	no
Dimensions (WxDxH)	630x150x590 mm	630x150x590 mm
Weight	min 20 kg - max 22 kg	min 20 kg - max 22 kg
Operating temperature	-30°C - 50°C	-30°C - 50°C
Level of protection	IP66	IP66
Insulation class	II	II

Street lighting

Ideal for street lighting, car parks and parks.



MODEL	CEILING LIGHT 662mm	CEILING LIGHT 1272mm	CEILING LIGHT 1572mm
Power supply	220/240V/60Hz	220/240V/60Hz	220/240V/60Hz
Power consumption	34W / 67W / 100W / 134 W	34W / 67W / 100W / 134 W	34W / 67W / 100W / 134 W
Colour temperature	4000K	4000K	4000K
Luminous flux	4160 lm / 8320 lm / 12480 lm / 16640 lm	4160 lm / 8320 lm / 12480 lm / 16640 lm	4160 lm / 8320 lm / 12480 lm / 16640 lm
Beam angle	50°	30°	/
CRI	≥70 Ra	>70 Ra	>70 Ra
Dimensions (WxDxH)	283x97x450 mm	283x97x450 mm	283x97x450 mm
Weight	6.35kg / 6.61kg / 6.62 kg	6.35kg / 6.61kg / 6.62 kg	6.35kg / 6.61kg / 6.62 kg
Operating temperature	-30°C - 50°C	-30°C - 50°C	-30°C - 50°C
Level of protection	IP66	IP66	IP66
Insulation class	II	II	II

ORDERS:

All orders or commitments made by the sales network are subject to the approval of ECA Technology Srl and are only valid following acceptance and formal order confirmation. By receiving the order confirmation, the customer acknowledges having read and accepted the general terms and conditions of sale.

PRICES:

Prices are set out in the official current price list at the time of delivery of the goods and do not include services or charges that are not mentioned. The prices indicated in the official price list are in Euros, Eco WEEE contribution and VAT excluded, and are subject to change without prior notification.

PAYMENT:

Payments must be made in the manner set out in the order confirmation, on the due date. In the case of deferred payment, failure to comply with even one deadline shall result in immediate suspension of supply, automatic forfeiture of the deadline and immediate commencement of default interest and monetary revaluation.

The invoice includes the payment conditions stated on the order confirmation.

TERMS OF DELIVERY:

The terms of delivery indicated on the order or order copy are purely indicative and not binding for ECA Technology Srl, which shall not be liable for any delays. In particular, it shall not be liable for delayed or non-delivery, in whole or in part, due to events beyond its control, such as, among others, but not limited to, company and transport strikes, non-receipt or delayed receipt of raw materials, restrictions in the movement of persons and/or local and/or international transportation, even if only temporary for any reason, shortages or theft of materials, etc.

Any delays shall not give rise to any claims for damages or penalties on the part of the Customer, nor to any termination, even partial, of the contract. Stocks shall always be understood as 'subject to sale'.

SHIPPING:

Return of the goods is always understood to be sold ex ECA Technology Srl warehouse packaging excluded unless otherwise indicated in writing. Goods are never insured, unless requested in writing by the customer, and always travel at the customer's own risk, even if sold carriage free.

Goods may be invoiced not at the time of handover by the carrier for delivery to the customer, but on the 'Delivery Date', i.e. the date of preparation relating to the deposit in the warehouse of the products available for sale. In this case, the goods shall be considered the property of the purchaser and shall be stored in our warehouses pending your collection.

COMPLAINTS:

Upon receipt of the goods, the Customer is obliged to carefully check that they correspond to that which is stated on the transport document and to check the integrity of the packaging. In the event of shortfalls or defects that are immediately detectable, the customer must make a written reservation on the delivery note itself, having the copy countersigned by the carrier, and must also notify ECA Technology Srl within 24 hours of receipt of the goods. The goods must, however, subsequently be checked with the utmost care to ensure that they are fit for use. Any complaints must, under penalty of forfeiture, be reported to ECA Technology Srl in writing within 8 (eight) days of receipt of goods, attaching photographic proof.

Goods found to be defective must be kept at the disposal of ECA Technology Srl. The Customer may not use or tamper with the aforementioned, even in part, without the authorisation of our Company, under penalty of forfeiture of the right of complaint. When ECA Technology Srl recognises that the complaint is well-founded, it may be required to remedy or replace partially or totally the items sold in accordance with availability, with exemption from any further liability, such that the Customer cannot claim any other compensation for direct or indirect consequential damages.

Goods to be replaced must be returned completely intact, by the means deemed most suitable by our Company.

RETURNS:

Return of goods will not be accepted after 15 days from the date of delivery and unless previously authorised by ECA Technology Srl, in writing and notified by means of a signed form. Authorised returns must be sent to ECA Technology Srl ONLY WHEN accompanied by a regular transport document and purchase details. The goods shall be credited at the purchase price less 10% calculated on the net sales value and settled under the same conditions of sale.

DOCUMENTATION AND TECHNICAL DATA:

Descriptions and technical data in brochures, offers, circulars, estimates, quotes, price lists etc. are for information purposes only and are subject to change without notice.

COMPETENT COURT AND JURISDICTION:

In the event of any dispute arising, the parties indicate that the Court of Vicenza shall have exclusive jurisdiction. Italian law shall apply exclusively to this contract.

This catalogue annuls and replaces any previous ones and comes into force on 29/04/2021

APRIL 2021 VERSION

Data may change without prior notice;

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Anniversary
1981 - 2021

ECA[®]Technology
ENERGY AND AIR-CONDITIONING SOLUTIONS

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